

SEQUENCE LISTING

<110> CHEN, J I
 HU, L
 LIU, T H
 LU, Z H
 SHEN, Y
 <120> Specific Markers for Pancreatic Cancer
 <130> 21525
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 <150> EP 02028058.2
 <151> 2002-12-17
 <160> 110
 <170> PatentIn version 3.2

<210> 1
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 <213> Homo sapiens
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 <221> Cathepsin D precursor
 <222> (1)..(412)
 <223> Accession NO: as of 06 Dec 2002: P07339
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              20              25              30
Arg Arg Thr Met Ser Glu Val Gly Gly Ser Val Glu Asp Leu Ile Ala
              35              40              45
Lys Gly Pro Val Ser Lys Tyr Ser Gln Ala Val Pro Ala Val Thr Glu
              50              55              60
Gly Pro Ile Pro Glu Val Leu Lys Asn Tyr Met Asp Ala Gln Tyr Tyr
65              70              75              80
Gly Glu Ile Gly Ile Gly Thr Pro Pro Gln Cys Phe Thr Val Val Phe
              85              90              95
Asp Thr Gly Ser Ser Asn Leu Trp Val Pro Ser Ile His Cys Lys Leu
              100             105             110
Leu Asp Ile Ala Cys Trp Ile His His Lys Tyr Asn Ser Asp Lys Ser
  
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115	120	125
Ser Thr Tyr Val Lys Asn Gly Thr Ser Phe Asp Ile His Tyr Gly Ser		
130	135	140
Gly Ser Leu Ser Gly Tyr Leu Ser Gln Asp Thr Val Ser Val Pro Cys		
145	150	155
Gln Ser Ala Ser Ser Ala Ser Ala Leu Gly Gly Val Lys Val Glu Arg		
165	170	175
Gln Val Phe Gly Glu Ala Thr Lys Gln Pro Gly Ile Thr Phe Ile Ala		
180	185	190
Ala Lys Phe Asp Gly Ile Leu Gly Met Ala Tyr Pro Arg Ile Ser Val		
195	200	205
Asn Asn Val Leu Pro Val Phe Asp Asn Leu Met Gln Gln Lys Leu Val		
210	215	220
Asp Gln Asn Ile Phe Ser Phe Tyr Leu Ser Arg Asp Pro Asp Ala Gln		
225	230	235
Pro Gly Gly Glu Leu Met Leu Gly Gly Thr Asp Ser Lys Tyr Tyr Lys		
245	250	255
Gly Ser Leu Ser Tyr Leu Asn Val Thr Arg Lys Ala Tyr Trp Gln Val		
260	265	270
His Leu Asp Gln Val Glu Val Ala Ser Gly Leu Thr Leu Cys Lys Glu		
275	280	285
Gly Cys Glu Ala Ile Val Asp Thr Gly Thr Ser Leu Met Val Gly Pro		
290	295	300
Val Asp Glu Val Arg Glu Leu Gln Lys Ala Ile Gly Ala Val Pro Leu		
305	310	315
Ile Gln Gly Glu Tyr Met Ile Pro Cys Glu Lys Val Ser Thr Leu Pro		
325	330	335
Ala Ile Thr Leu Lys Leu Gly Gly Lys Gly Tyr Lys Leu Ser Pro Glu		
340	345	350
Asp Tyr Thr Leu Lys Val Ser Gln Ala Gly Lys Thr Leu Cys Leu Ser		
355	360	365
Gly Phe Met Gly Met Asp Ile Pro Pro Pro Ser Gly Pro Leu Trp Ile		
370	375	380
Leu Gly Asp Val Phe Ile Gly Arg Tyr Tyr Thr Val Phe Asp Arg Asp		
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Asn Asn Arg Val Gly Phe Ala Glu Ala Ala Arg Leu		
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<212> PRT
 <213> Homo sapiens
 <220>
 <221> Isocitrate dehydrogenase [NADP] cytoplasmic
 <222> (1)..(414)
 <223> Accession NO: as of 06 Dec 2002: 075874
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Pro	Tyr	Val	Glu	Leu	Asp	Leu	His	Ser	Tyr	Asp	Leu	Gly	Ile	Glu	Asn	35	40	45	
Arg	Asp	Ala	Thr	Asn	Asp	Gln	Val	Thr	Lys	Asp	Ala	Ala	Glu	Ala	Ile	50	55	60	
Lys	Lys	His	Asn	Val	Gly	Val	Lys	Cys	Ala	Thr	Ile	Thr	Pro	Asp	Glu	65	70	75	80
Lys	Arg	Val	Glu	Glu	Phe	Lys	Leu	Lys	Gln	Met	Trp	Lys	Ser	Pro	Asn	85	90	95	
Gly	Thr	Ile	Arg	Asn	Ile	Leu	Gly	Gly	Thr	Val	Phe	Arg	Glu	Ala	Ile	100	105	110	
Ile	Cys	Lys	Asn	Ile	Pro	Arg	Leu	Val	Ser	Gly	Trp	Val	Lys	Pro	Ile	115	120	125	
Ile	Ile	Gly	Arg	His	Ala	Tyr	Gly	Asp	Gln	Tyr	Arg	Ala	Thr	Asp	Phe	130	135	140	
Val	Val	Pro	Gly	Pro	Gly	Lys	Val	Glu	Ile	Thr	Tyr	Thr	Pro	Ser	Asp	145	150	155	160
Gly	Thr	Gln	Lys	Val	Thr	Tyr	Leu	Val	His	Asn	Phe	Glu	Glu	Gly	Gly	165	170	175	
Gly	Val	Ala	Met	Gly	Met	Tyr	Asn	Gln	Asp	Lys	Ser	Ile	Glu	Asp	Phe	180	185	190	
Ala	His	Ser	Ser	Phe	Gln	Met	Ala	Leu	Ser	Lys	Gly	Trp	Pro	Leu	Tyr	195	200	205	
Leu	Ser	Thr	Lys	Asn	Thr	Ile	Leu	Lys	Lys	Tyr	Asp	Gly	Arg	Phe	Lys	210	215	220	
Asp	Ile	Phe	Gln	Glu	Ile	Tyr	Asp	Lys	Gln	Tyr	Lys	Ser	Gln	Phe	Glu	225	230	235	240
Ala	Gln	Lys	Ile	Trp	Tyr	Glu	His	Arg	Leu	Ile	Asp	Asp	Met	Val	Ala	245	250	255	
Gln	Ala	Met	Lys	Ser	Glu	Gly	Gly	Phe	Ile	Trp	Ala	Cys	Lys	Asn	Tyr				

	260		265		270										
Asp	Gly	Asp	Val	Gln	Ser	Asp	Ser	Val	Ala	Gln	Gly	Tyr	Gly	Ser	Leu
	275						280					285			
Gly	Met	Met	Thr	Ser	Val	Leu	Val	Cys	Pro	Asp	Gly	Lys	Thr	Val	Glu
	290					295					300				
Ala	Glu	Ala	Ala	His	Gly	Thr	Val	Thr	Arg	His	Tyr	Arg	Met	Tyr	Gln
305					310					315					320
Lys	Gly	Gln	Glu	Thr	Ser	Thr	Asn	Pro	Ile	Ala	Ser	Ile	Phe	Ala	Trp
				325					330				335		
Thr	Arg	Gly	Leu	Ala	His	Arg	Ala	Lys	Leu	Asp	Asn	Asn	Lys	Glu	Leu
	340							345				350			
Ala	Phe	Phe	Ala	Asn	Ala	Leu	Glu	Glu	Val	Ser	Ile	Glu	Thr	Ile	Glu
	355					360					365				
Ala	Gly	Phe	Met	Thr	Lys	Asp	Leu	Ala	Ala	Cys	Ile	Lys	Gly	Leu	Pro
	370					375					380				
Asn	Val	Gln	Arg	Ser	Asp	Tyr	Leu	Asn	Thr	Phe	Glu	Phe	Met	Asp	Lys
385					390					395					400
Leu	Gly	Glu	Asn	Leu	Lys	Ile	Lys	Leu	Ala	Gln	Ala	Lys	Leu		
			325			410									

<210> 3
 <211> 782
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Gelsolin precursor, plasma
 <222> (1)..(782)
 <223> Accession NO: as of 06 Dec 2002: P06396
 <400> 3

Met	Ala	Pro	His	Arg	Pro	Ala	Pro	Ala	Leu	Leu	Cys	Ala	Leu	Ser	Leu
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Ala	Leu	Cys	Ala	Leu	Ser	Leu	Pro	Val	Arg	Ala	Ala	Thr	Ala	Ser	Arg
		20						25					30		
Gly	Ala	Ser	Gln	Ala	Gly	Ala	Pro	Gln	Gly	Arg	Val	Pro	Glu	Ala	Arg
	35					40					45				
Pro	Asn	Ser	Met	Val	Val	Glu	His	Pro	Glu	Phe	Leu	Lys	Ala	Gly	Lys
	50					55				60					
Glu	Pro	Gly	Leu	Gln	Ile	Trp	Arg	Val	Glu	Lys	Phe	Asp	Leu	Val	Pro
65				70					75				80		

Val	Pro	Thr	Asn	Leu	Tyr	Gly	Asp	Phe	Phe	Thr	Gly	Asp	Ala	Tyr	Val			
				85					90					95				
Ile	Leu	Lys	Thr	Val	Gln	Leu	Arg	Asn	Gly	Asn	Leu	Gln	Tyr	Asp	Leu			
			100					105					110					
His	Tyr	Trp	Leu	Gly	Asn	Glu	Cys	Ser	Gln	Asp	Glu	Ser	Gly	Ala	Ala			
		115					120					125						
Ala	Ile	Phe	Thr	Val	Gln	Leu	Asp	Asp	Tyr	Leu	Asn	Gly	Arg	Ala	Val			
		130				135					140							
Gln	His	Arg	Glu	Val	Gln	Gly	Phe	Glu	Ser	Ala	Thr	Phe	Leu	Gly	Tyr			
145					150					155					160			
Phe	Lys	Ser	Gly	Leu	Lys	Tyr	Lys	Lys	Gly	Gly	Val	Ala	Ser	Gly	Phe			
			165					170					175					
Lys	His	Val	Val	Pro	Asn	Glu	Val	Val	Val	Gln	Arg	Leu	Phe	Gln	Val			
			180					185					190					
Lys	Gly	Arg	Arg	Val	Val	Arg	Ala	Thr	Glu	Val	Pro	Val	Ser	Trp	Glu			
		195				200					205							
Ser	Phe	Asn	Asn	Gly	Asp	Cys	Phe	Ile	Leu	Asp	Leu	Gly	Asn	Asn	Ile			
	210					215					220							
His	Gln	Trp	Cys	Gly	Ser	Asn	Ser	Asn	Arg	Tyr	Glu	Arg	Leu	Lys	Ala			
225						230				235					240			
Thr	Gln	Val	Ser	Lys	Gly	Ile	Arg	Asp	Asn	Glu	Arg	Ser	Gly	Arg	Ala			
			245					250					255					
Arg	Val	His	Val	Ser	Glu	Glu	Gly	Thr	Glu	Pro	Glu	Ala	Met	Leu	Gln			
			260					265					270					
Val	Leu	Gly	Pro	Lys	Pro	Ala	Leu	Pro	Ala	Gly	Thr	Glu	Asp	Thr	Ala			
		275					280					285						
Lys	Glu	Asp	Ala	Ala	Asn	Arg	Lys	Leu	Ala	Lys	Leu	Tyr	Lys	Val	Ser			
	290					295					300							
Asn	Gly	Ala	Gly	Thr	Met	Ser	Val	Ser	Leu	Val	Ala	Asp	Glu	Asn	Pro			
305					310					315					320			
Phe	Ala	Gln	Gly	Ala	Leu	Lys	Ser	Glu	Asp	Cys	Phe	Ile	Leu	Asp	His			
			325					330					335					
Gly	Lys	Asp	Gly	Lys	Ile	Phe	Val	Trp	Lys	Gly	Lys	Gln	Ala	Asn	Thr			
		340						345					350					
Glu	Glu	Arg	Lys	Ala	Ala	Leu	Lys	Thr	Ala	Ser	Asp	Phe	Ile	Thr	Lys			
		355					360					365						
Met	Asp	Tyr	Pro	Lys	Gln	Thr	Gln	Val	Ser	Val	Leu	Pro	Glu	Gly	Gly			
	370					375					380							
Glu	Thr	Pro	Leu	Phe	Lys	Gln	Phe	Phe	Lys	Asn	Trp	Arg	Asp	Pro	Asp			
385					390					395					400			
Gln	Thr	Asp	Gly	Leu	Gly	Leu	Ser	Tyr	Leu	Ser	Ser	His	Ile	Ala	Asn			

	405		410		415
Val Glu Arg Val Pro Phe Asp Ala Ala Thr Leu His Thr Ser Thr Ala					
	420		425		430
Met Ala Ala Gln His Gly Met Asp Asp Asp Gly Thr Gly Gln Lys Gln					
	435		440		445
Ile Trp Arg Ile Glu Gly Ser Asn Lys Val Pro Val Asp Pro Ala Thr					
	450		455		460
Tyr Gly Gln Phe Tyr Gly Gly Asp Ser Tyr Ile Ile Leu Tyr Asn Tyr					
465		470		475	480
Arg His Gly Gly Arg Gln Gly Gln Ile Ile Tyr Asn Trp Gln Gly Ala					
	485		490		495
Gln Ser Thr Gln Asp Glu Val Ala Ala Ser Ala Ile Leu Thr Ala Gln					
	500		505		510
Leu Asp Glu Glu Leu Gly Gly Thr Pro Val Gln Ser Arg Val Val Gln					
	515		520		525
Gly Lys Glu Pro Ala His Leu Met Ser Leu Phe Gly Gly Lys Pro Met					
	530		535		540
Ile Ile Tyr Lys Gly Gly Thr Ser Arg Glu Gly Gly Gln Thr Ala Pro					
545		550		555	560
Ala Ser Thr Arg Leu Phe Gln Val Arg Ala Asn Ser Ala Gly Ala Thr					
	565		570		575
Arg Ala Val Glu Val Leu Pro Lys Ala Gly Ala Leu Asn Ser Asn Asp					
	580		585		590
Ala Phe Val Leu Lys Thr Pro Ser Ala Ala Tyr Leu Trp Val Gly Thr					
	595		600		605
Gly Ala Ser Glu Ala Glu Lys Thr Gly Ala Gln Glu Leu Leu Arg Val					
	610		615		620
Leu Arg Ala Gln Pro Val Gln Val Ala Glu Gly Ser Glu Pro Asp Gly					
625		630		635	640
Phe Trp Glu Ala Leu Gly Gly Lys Ala Ala Tyr Arg Thr Ser Pro Arg					
	645		650		655
Leu Lys Asp Lys Lys Met Asp Ala His Pro Pro Arg Leu Phe Ala Cys					
	660		665		670
Ser Asn Lys Ile Gly Arg Phe Val Ile Glu Glu Val Pro Gly Glu Leu					
	675		680		685
Met Gln Glu Asp Leu Ala Thr Asp Asp Val Met Leu Leu Asp Thr Trp					
	690		695		700
Asp Gln Val Phe Val Trp Val Gly Lys Asp Ser Gln Glu Glu Glu Lys					
705		710		715	720
Thr Glu Ala Leu Thr Ser Ala Lys Arg Tyr Ile Glu Thr Asp Pro Ala					
	725		730		735

Asn Arg Asp Arg Arg Thr Pro Ile Thr Val Val Lys Gln Gly Phe Glu
 740 745 750
 Pro Pro Ser Phe Val Gly Trp Phe Leu Gly Trp Asp Asp Asp Tyr Trp
 755 760 765
 Ser Val Asp Pro Leu Asp Arg Ala Met Ala Glu Leu Ala Ala
 770 775 780

<210> 4
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 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Complement factor B precursor
 <222> (1)..(764)
 <223> Accession NO: as of 06 Dec 2002: P00751
 <400> 4

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 35 40 45
 Phe Arg Leu Leu Gln Glu Gly Gln Ala Leu Glu Tyr Val Cys Pro Ser
 50 55 60
 Gly Phe Tyr Pro Tyr Pro Val Gln Thr Arg Thr Cys Arg Ser Thr Gly
 65 70 75 80
 Ser Trp Ser Thr Leu Lys Thr Gln Asp Gln Lys Thr Val Arg Lys Ala
 85 90 95
 Glu Cys Arg Ala Ile His Cys Pro Arg Pro His Asp Phe Glu Asn Gly
 100 105 110
 Glu Tyr Trp Pro Arg Ser Pro Tyr Tyr Asn Val Ser Asp Glu Ile Ser
 115 120 125
 Phe His Cys Tyr Asp Gly Tyr Thr Leu Arg Gly Ser Ala Asn Arg Thr
 130 135 140
 Cys Gln Val Asn Gly Arg Trp Ser Gly Gln Thr Ala Ile Cys Asp Asn
 145 150 155 160
 Gly Ala Gly Tyr Cys Ser Asn Pro Gly Ile Pro Ile Gly Thr Arg Lys
 165 170 175
 Val Gly Ser Gln Tyr Arg Leu Glu Asp Ser Val Thr Tyr His Cys Ser

	180		185		190
Arg Gly Leu Thr Leu Arg Gly Ser Gln Arg Arg Thr Cys Gln Glu Gly					
195		200		205	
Gly Ser Trp Ser Gly Thr Glu Pro Ser Cys Gln Asp Ser Phe Met Tyr					
210		215		220	
Asp Thr Pro Gln Glu Val Ala Glu Ala Phe Leu Ser Ser Leu Thr Glu					
225		230		235	240
Thr Ile Glu Gly Val Asp Ala Glu Asp Gly His Gly Pro Gly Glu Gln					
	245		250		255
Gln Lys Arg Lys Ile Val Leu Asp Pro Ser Gly Ser Met Asn Ile Tyr					
	260		265		270
Leu Val Leu Asp Gly Ser Asp Ser Ile Gly Ala Ser Asn Phe Thr Gly					
	275		280		285
Ala Lys Lys Cys Leu Val Asn Leu Ile Glu Lys Val Ala Ser Tyr Gly					
	290		295		300
Val Lys Pro Arg Tyr Gly Leu Val Thr Tyr Ala Thr Tyr Pro Lys Ile					
305		310		315	320
Trp Val Lys Val Ser Glu Ala Asp Ser Ser Asn Ala Asp Trp Val Thr					
	325		330		335
Lys Gln Leu Asn Glu Ile Asn Tyr Glu Asp His Lys Leu Lys Ser Gly					
	340		345		350
Thr Asn Thr Lys Lys Ala Leu Gln Ala Val Tyr Ser Met Met Ser Trp					
	355		360		365
Pro Asp Asp Val Pro Pro Glu Gly Trp Asn Arg Thr Arg His Val Ile					
	370		375		380
Ile Leu Met Thr Asp Gly Leu His Asn Met Gly Gly Asp Pro Ile Thr					
385		390		395	400
Val Ile Asp Glu Ile Arg Asp Leu Leu Tyr Ile Gly Lys Asp Arg Lys					
	405		410		415
Asn Pro Arg Glu Asp Tyr Leu Asp Val Tyr Val Phe Gly Val Gly Pro					
	420		425		430
Leu Val Asn Gln Val Asn Ile Asn Ala Leu Ala Ser Lys Lys Asp Asn					
	435		440		445
Glu Gln His Val Phe Lys Val Lys Asp Met Glu Asn Leu Glu Asp Val					
	450		455		460
Phe Tyr Gln Met Ile Asp Glu Ser Gln Ser Leu Ser Leu Cys Gly Met					
465		470		475	480
Val Trp Glu His Arg Lys Gly Thr Asp Tyr His Lys Gln Pro Trp Gln					
	485		490		495
Ala Lys Ile Ser Val Ile Arg Pro Ser Lys Gly His Glu Ser Cys Met					
	500		505		510

Gly Ala Val Val Ser Glu Tyr Phe Val Leu Thr Ala Ala His Cys Phe
 515 520 525
 Thr Val Asp Asp Lys Glu His Ser Ile Lys Val Ser Val Gly Gly Glu
 530 535 540
 Lys Arg Asp Leu Glu Ile Glu Val Val Leu Phe His Pro Asn Tyr Asn
 545 550 555 560
 Ile Asn Gly Lys Lys Glu Ala Gly Ile Pro Glu Phe Tyr Asp Tyr Asp
 565 570 575
 Val Ala Leu Ile Lys Leu Lys Asn Lys Leu Lys Tyr Gly Gln Thr Ile
 580 585 590
 Arg Pro Ile Cys Leu Pro Cys Thr Glu Gly Thr Thr Arg Ala Leu Arg
 595 600 605
 Leu Pro Pro Thr Thr Thr Cys Gln Gln Gln Lys Glu Glu Leu Leu Pro
 610 615 620
 Ala Gln Asp Ile Lys Ala Leu Phe Val Ser Glu Glu Glu Lys Lys Leu
 625 630 635 640
 Thr Arg Lys Glu Val Tyr Ile Lys Asn Gly Asp Lys Lys Gly Ser Cys
 645 650 655
 Glu Arg Asp Ala Gln Tyr Ala Pro Gly Tyr Asp Lys Val Lys Asp Ile
 660 665 670
 Ser Glu Val Val Thr Pro Arg Phe Leu Cys Thr Gly Gly Val Ser Pro
 675 680 685
 Tyr Ala Asp Pro Asn Thr Cys Arg Gly Asp Ser Gly Gly Pro Leu Ile
 690 695 700
 Val His Lys Arg Ser Arg Phe Ile Gln Val Gly Val Ile Ser Trp Gly
 705 710 715 720
 Val Val Asp Val Cys Lys Asn Gln Lys Arg Gln Lys Gln Val Pro Ala
 725 730 735
 His Ala Arg Asp Phe His Ile Asn Leu Phe Gln Val Leu Pro Trp Leu
 740 745 750
 Lys Glu Lys Leu Gln Asp Glu Asp Leu Gly Phe Leu
 325 760

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 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Alpha-actinin 4
 <222> (1)..(911)

<223> Accession NO: O43707

<400> 5

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Ala Gln Glu Asp Asp Trp Asp Arg Asp Leu Leu Leu Asp Pro Ala Trp
35 40 45
Glu Lys Gln Gln Arg Lys Thr Phe Thr Ala Trp Cys Asn Ser His Leu
50 55 60
Arg Lys Ala Gly Thr Gln Ile Glu Asn Ile Asp Glu Asp Phe Arg Asp
65 70 75 80
Gly Leu Lys Leu Met Leu Leu Leu Glu Val Ile Ser Gly Glu Arg Leu
85 90 95
Pro Lys Pro Glu Arg Gly Lys Met Arg Val His Lys Ile Asn Asn Val
100 105 110
Asn Lys Ala Leu Asp Phe Ile Ala Ser Lys Gly Val Lys Leu Val Ser
115 120 125
Ile Gly Ala Glu Glu Ile Val Asp Gly Asn Ala Lys Met Thr Leu Gly
130 135 140
Met Ile Trp Thr Ile Ile Leu Arg Phe Ala Ile Gln Asp Ile Ser Val
145 150 155 160
Glu Glu Thr Ser Ala Lys Glu Gly Leu Leu Leu Trp Cys Gln Arg Lys
165 170 175
Thr Ala Pro Tyr Lys Asn Val Asn Val Gln Asn Phe His Ile Ser Trp
180 185 190
Lys Asp Gly Leu Ala Phe Asn Ala Leu Ile His Arg His Arg Pro Glu
195 200 205
Leu Ile Glu Tyr Asp Lys Leu Arg Lys Asp Asp Pro Val Thr Asn Leu
210 215 220
Asn Asn Ala Phe Glu Val Ala Glu Lys Tyr Leu Asp Ile Pro Lys Met
225 230 235 240
Leu Asp Ala Glu Asp Ile Val Asn Thr Ala Arg Pro Asp Glu Lys Ala
245 250 255
Ile Met Thr Tyr Val Ser Ser Phe Tyr His Ala Phe Ser Gly Ala Gln
260 265 270
Lys Ala Glu Thr Ala Ala Asn Arg Ile Cys Lys Val Leu Ala Val Asn
275 280 285
Gln Glu Asn Glu His Leu Met Glu Asp Tyr Glu Lys Leu Ala Ser Asp
290 295 300

Leu Leu Glu Trp Ile Arg Arg Thr Ile Pro Trp Leu Glu Asp Arg Val
 305 310 315 320
 Pro Gln Lys Thr Ile Gln Glu Met Gln Gln Lys Leu Glu Asp Phe Arg
 325 330 335
 Asp Tyr Arg Arg Val His Lys Pro Pro Lys Val Gln Glu Lys Cys Gln
 340 345 350
 Leu Glu Ile Asn Phe Asn Thr Leu Gln Thr Lys Leu Arg Leu Ser Asn
 355 360 365
 Arg Pro Ala Phe Met Pro Ser Glu Gly Lys Met Val Ser Asp Ile Asn
 370 375 380
 Asn Gly Trp Gln His Leu Glu Gln Ala Glu Lys Gly Tyr Glu Glu Trp
 385 390 395 400
 Leu Leu Asn Glu Ile Arg Arg Leu Glu Arg Leu Asp His Leu Ala Glu
 405 410 415
 Lys Phe Arg Gln Lys Ala Ser Ile His Glu Ala Trp Thr Asp Gly Lys
 420 425 430
 Glu Ala Met Leu Lys His Arg Asp Tyr Glu Thr Ala Thr Leu Ser Asp
 435 440 445
 Ile Lys Ala Leu Ile Arg Lys His Glu Ala Phe Glu Ser Asp Leu Ala
 450 455 460
 Ala His Gln Asp Arg Val Glu Gln Ile Ala Ala Ile Ala Gln Glu Leu
 465 470 475 480
 Asn Glu Leu Asp Tyr Tyr Asp Ser His Asn Val Asn Thr Arg Cys Gln
 485 490 495
 Lys Ile Cys Asp Gln Trp Asp Ala Leu Gly Ser Leu Thr His Ser Arg
 500 505 510
 Arg Glu Ala Leu Glu Lys Thr Glu Lys Gln Leu Glu Ala Ile Asp Gln
 515 520 525
 Leu His Leu Glu Tyr Ala Lys Arg Ala Ala Pro Phe Asn Asn Trp Met
 530 535 540
 Glu Ser Ala Met Glu Asp Leu Gln Asp Met Phe Ile Val His Thr Ile
 545 550 555 560
 Glu Glu Ile Glu Gly Leu Ile Ser Ala His Asp Gln Phe Lys Ser Thr
 565 570 575
 Leu Pro Asp Ala Asp Arg Glu Arg Glu Ala Ile Leu Ala Ile His Lys
 580 585 590
 Glu Ala Gln Arg Ile Ala Glu Ser Asn His Ile Lys Leu Ser Gly Ser
 595 600 605
 Asn Pro Tyr Thr Thr Val Thr Pro Gln Ile Ile Asn Ser Lys Trp Glu
 610 615 620
 Lys Val Gln Gln Leu Val Pro Lys Arg Asp His Ala Leu Leu Glu Glu

625		630		635		640
Gln Ser Lys Gln Gln Ser Asn Glu His Leu Arg Arg Gln Phe Ala Ser						
	645		650		655	
Gln Ala Asn Val Val Gly Pro Trp Ile Gln Thr Lys Met Glu Glu Ile						
	660		665		670	
Gly Arg Ile Ser Ile Glu Met Asn Gly Thr Leu Glu Asp Gln Leu Ser						
	675		680		685	
His Leu Lys Gln Tyr Glu Arg Ser Ile Val Asp Tyr Lys Pro Asn Leu						
	690		695		700	
Asp Leu Leu Glu Gln Gln His Gln Leu Ile Gln Glu Ala Leu Ile Phe						
705		710		715		720
Asp Asn Lys His Thr Asn Tyr Thr Met Glu His Ile Arg Val Gly Trp						
	725		730		735	
Glu Gln Leu Leu Thr Thr Ile Ala Arg Thr Ile Asn Glu Val Glu Asn						
	740		745		750	
Gln Ile Leu Thr Arg Asp Ala Lys Gly Ile Ser Gln Glu Gln Met Gln						
	755		760		765	
Glu Phe Arg Ala Ser Phe Asn His Phe Asp Lys Asp His Gly Gly Ala						
	770		775		780	
Leu Gly Pro Glu Glu Phe Lys Ala Cys Leu Ile Ser Leu Gly Tyr Asp						
785		790		795		800
Val Glu Asn Asp Arg Gln Gly Glu Ala Glu Phe Asn Arg Ile Met Ser						
	805		810		815	
Leu Val Asp Pro Asn His Ser Gly Leu Val Thr Phe Gln Ala Phe Ile						
	820		825		830	
Asp Phe Met Ser Arg Glu Thr Thr Asp Thr Asp Thr Ala Asp Gln Val						
	835		840		845	
Ile Ala Ser Phe Lys Val Leu Ala Gly Asp Lys Asn Phe Ile Thr Ala						
	850		855		860	
Glu Glu Leu Arg Arg Glu Leu Pro Pro Asp Gln Ala Glu Tyr Cys Ile						
865		870		875		880
Ala Arg Met Ala Pro Tyr Gln Gly Pro Asp Ala Val Pro Gly Ala Leu						
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Asp Tyr Lys Ser Phe Ser Thr Ala Leu Tyr Gly Glu Ser Asp Leu						
	900		905		910	

<210> 6

<211> 683

<212> PRT

<213> Homo sapiens

<220>

<221> Transforming growth factor-beta induced protein IG-H3 precursor

<222> (1)..(683)

<223> Accession NO: as of 06 Dec 2002: Q15582

<400> 6

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Met Ala Leu Phe Val Arg Leu Leu Ala Leu Ala Leu Ala Leu Ala Leu
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Gly Pro Ala Ala Thr Leu Ala Gly Pro Ala Lys Ser Pro Tyr Gln Leu
          20          25          30
Val Leu Gln His Ser Arg Leu Arg Gly Arg Gln His Gly Pro Asn Val
          35          40          45
Cys Ala Val Gln Lys Val Ile Gly Thr Asn Arg Lys Tyr Phe Thr Asn
          50          55          60
Cys Lys Gln Trp Tyr Gln Arg Lys Ile Cys Gly Lys Ser Thr Val Ile
65          70          75          80
Ser Tyr Glu Cys Cys Pro Gly Tyr Glu Lys Val Pro Gly Glu Lys Gly
          85          90          95
Cys Pro Ala Ala Leu Pro Leu Ser Asn Leu Tyr Glu Thr Leu Gly Val
          100         105         110
Val Gly Ser Thr Thr Thr Gln Leu Tyr Thr Asp Arg Thr Glu Lys Leu
          115         120         125
Arg Pro Glu Met Glu Gly Pro Gly Ser Phe Thr Ile Phe Ala Pro Ser
          130         135         140
Asn Glu Ala Trp Ala Ser Leu Pro Ala Glu Val Leu Asp Ser Leu Val
145         150         155         160
Ser Asn Val Asn Ile Glu Leu Leu Asn Ala Leu Arg Tyr His Met Val
          165         170         175
Gly Arg Arg Val Leu Thr Asp Glu Leu Lys His Gly Met Thr Leu Thr
          180         185         190
Ser Met Tyr Gln Asn Ser Asn Ile Gln Ile His His Tyr Pro Asn Gly
          195         200         205
Ile Val Thr Val Asn Cys Ala Arg Leu Leu Lys Ala Asp His His Ala
          210         215         220
Thr Asn Gly Val Val His Leu Ile Asp Lys Val Ile Ser Thr Ile Thr
225         230         235         240
Asn Asn Ile Gln Gln Ile Ile Glu Ile Glu Asp Thr Phe Glu Thr Leu
          245         250         255
Arg Ala Ala Val Ala Ala Ser Gly Leu Asn Thr Met Leu Glu Gly Asn
          260         265         270
Gly Gln Tyr Thr Leu Leu Ala Pro Thr Asn Glu Ala Phe Glu Lys Ile
```

275	280	285
Pro Ser Glu Thr Leu Asn Arg	Ile Leu Gly Asp	Pro Glu Ala Leu Arg
290	295	300
Asp Leu Leu Asn Asn His Ile	Leu Lys Ser Ala Met Cys	Ala Glu Ala
305	310	315
Ile Val Ala Gly Leu Ser Val	Glu Thr Leu Glu Gly Thr Thr	Leu Glu
325	330	335
Val Gly Cys Ser Gly Asp Met	Leu Thr Ile Asn Gly Lys	Ala Ile Ile
340	345	350
Ser Asn Lys Asp Ile Leu Ala	Thr Asn Gly Val Ile His Tyr	Ile Asp
355	360	365
Glu Leu Leu Ile Pro Asp Ser	Ala Lys Thr Leu Phe Glu	Leu Ala Ala
370	375	380
Glu Ser Asp Val Ser Thr Ala	Ile Asp Leu Phe Arg Gln	Ala Gly Leu
385	390	395
Gly Asn His Leu Ser Gly Ser	Glu Arg Leu Thr Leu Leu	Ala Pro Leu
405	410	415
Asn Ser Val Phe Lys Asp Gly	Thr Pro Pro Ile Asp Ala	His Thr Arg
420	425	430
Asn Leu Leu Arg Asn His Ile	Ile Lys Asp Gln Leu Ala	Ser Lys Tyr
435	440	445
Leu Tyr His Gly Gln Thr Leu	Glu Thr Leu Gly Gly Lys	Lys Leu Arg
450	455	460
Val Phe Val Tyr Arg Asn Ser	Leu Cys Ile Glu Asn Ser	Cys Ile Ala
465	470	475
Ala His Asp Lys Arg Gly Arg	Tyr Gly Thr Leu Phe Thr	Met Asp Arg
485	490	495
Val Leu Thr Pro Pro Met Gly	Thr Val Met Asp Val Leu	Lys Gly Asp
500	505	510
Asn Arg Phe Ser Met Leu Val	Ala Ala Ile Gln Ser Ala	Gly Leu Thr
515	520	525
Glu Thr Leu Asn Arg Glu Gly	Val Tyr Thr Val Phe Ala	Pro Thr Asn
530	535	540
Glu Ala Phe Arg Ala Leu Pro	Pro Arg Glu Arg Ser Arg	Leu Leu Gly
545	550	555
Asp Ala Lys Glu Leu Ala Asn	Ile Leu Lys Tyr His Ile	Gly Asp Glu
565	570	575
Ile Leu Val Ser Gly Gly Ile	Gly Ala Leu Val Arg Leu	Lys Ser Leu
580	585	590
Gln Gly Asp Lys Leu Glu Val	Ser Leu Lys Asn Asn Val	Val Ser Val
595	600	605

Asn Lys Glu Pro Val Ala Glu Pro Asp Ile Met Ala Thr Asn Gly Val
 610 615 620
 Val His Val Ile Thr Asn Val Leu Gln Pro Pro Ala Asn Arg Pro Gln
 625 630 635 640
 Glu Arg Gly Asp Glu Leu Ala Asp Ser Ala Leu Glu Ile Phe Lys Gln
 645 650 655
 Ala Ser Ala Phe Ser Arg Ala Ser Gln Arg Ser Val Arg Leu Ala Pro
 660 665 670
 Val Tyr Gln Lys Leu Leu Glu Arg Met Lys His
 325 680

<210> 7
 <211> 892
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Alpha-actinin 1
 <222> (1)..(892)
 <223> Accession NO: P12814
 <400> 7

Met Asp His Tyr Asp Ser Gln Gln Thr Asn Asp Tyr Met Gln Pro Glu
 1 5 10 15
 Glu Asp Trp Asp Arg Asp Leu Leu Leu Asp Pro Ala Trp Glu Lys Gln
 20 25 30
 Gln Arg Lys Thr Phe Thr Ala Trp Cys Asn Ser His Leu Arg Lys Ala
 35 40 45
 Gly Thr Gln Ile Glu Asn Ile Glu Glu Asp Phe Arg Asp Gly Leu Lys
 50 55 60
 Leu Met Leu Leu Leu Glu Val Ile Ser Gly Glu Arg Leu Ala Lys Pro
 65 70 75 80
 Glu Arg Gly Lys Met Arg Val His Lys Ile Ser Asn Val Asn Lys Ala
 85 90 95
 Leu Asp Phe Ile Ala Ser Lys Gly Val Lys Leu Val Ser Ile Gly Ala
 100 105 110
 Glu Glu Ile Val Asp Gly Asn Val Lys Met Thr Leu Gly Met Ile Trp
 115 120 125
 Thr Ile Ile Leu Arg Phe Ala Ile Gln Asp Ile Ser Val Glu Glu Thr
 130 135 140
 Ser Ala Lys Glu Gly Leu Leu Leu Trp Cys Gln Arg Lys Thr Ala Pro

145		150		155		160									
Tyr	Lys	Asn	Val	Asn	Ile	Gln	Asn	Phe	His	Ile	Ser	Trp	Lys	Asp	Gly
		165		170		175									
Leu	Gly	Phe	Cys	Ala	Leu	Ile	His	Arg	His	Arg	Pro	Glu	Leu	Ile	Asp
		180		185		190									
Tyr	Gly	Lys	Leu	Arg	Lys	Asp	Asp	Pro	Leu	Thr	Asn	Leu	Asn	Thr	Ala
		195		200		205									
Phe	Asp	Val	Ala	Glu	Lys	Tyr	Leu	Asp	Ile	Pro	Lys	Met	Leu	Asp	Ala
		210		215		220									
Glu	Asp	Ile	Val	Gly	Thr	Ala	Arg	Pro	Asp	Glu	Lys	Ala	Ile	Met	Thr
225		230		235		240									
Tyr	Val	Ser	Ser	Phe	Tyr	His	Ala	Phe	Ser	Gly	Ala	Gln	Lys	Ala	Glu
		245		250		255									
Thr	Ala	Ala	Asn	Arg	Ile	Cys	Lys	Val	Leu	Ala	Val	Asn	Gln	Glu	Asn
		260		265		270									
Glu	Gln	Leu	Met	Glu	Asp	Tyr	Glu	Lys	Leu	Ala	Ser	Asp	Leu	Leu	Glu
		275		280		285									
Trp	Ile	Arg	Arg	Thr	Ile	Pro	Trp	Leu	Glu	Asn	Arg	Val	Pro	Glu	Asn
		290		295		300									
Thr	Met	His	Ala	Met	Gln	Gln	Lys	Leu	Glu	Asp	Phe	Arg	Asp	Tyr	Arg
305		310		315		320									
Arg	Leu	His	Lys	Pro	Pro	Lys	Val	Gln	Glu	Lys	Cys	Gln	Leu	Glu	Ile
		325		330		335									
Asn	Phe	Asn	Thr	Leu	Gln	Thr	Lys	Leu	Arg	Leu	Ser	Asn	Arg	Pro	Ala
		340		345		350									
Phe	Met	Pro	Ser	Glu	Gly	Arg	Met	Val	Ser	Asp	Ile	Asn	Asn	Ala	Trp
		355		360		365									
Gly	Cys	Leu	Glu	Gln	Val	Glu	Lys	Gly	Tyr	Glu	Glu	Trp	Leu	Leu	Asn
		370		375		380									
Glu	Ile	Arg	Arg	Leu	Glu	Arg	Leu	Asp	His	Leu	Ala	Glu	Lys	Phe	Arg
385		390		395		400									
Gln	Lys	Ala	Ser	Ile	His	Glu	Ala	Trp	Thr	Asp	Gly	Lys	Glu	Ala	Met
		405		410		415									
Leu	Arg	Gln	Lys	Asp	Tyr	Glu	Thr	Ala	Thr	Leu	Ser	Glu	Ile	Lys	Ala
		420		425		430									
Leu	Leu	Lys	Lys	His	Glu	Ala	Phe	Glu	Ser	Asp	Leu	Ala	Ala	His	Gln
		435		440		445									
Asp	Arg	Val	Glu	Gln	Ile	Ala	Ala	Ile	Ala	Gln	Glu	Leu	Asn	Glu	Leu
		450		455		460									
Asp	Tyr	Tyr	Asp	Ser	Pro	Ser	Val	Asn	Ala	Arg	Cys	Gln	Lys	Ile	Cys
465		470		475		480									

Asp	Gln	Trp	Asp	Asn	Leu	Gly	Ala	Leu	Thr	Gln	Lys	Arg	Arg	Glu	Ala			
				485						490				495				
Leu	Glu	Arg	Thr	Glu	Lys	Leu	Leu	Glu	Thr	Ile	Asp	Gln	Leu	Tyr	Leu			
			500					505					510					
Glu	Tyr	Ala	Lys	Arg	Ala	Ala	Pro	Phe	Asn	Asn	Trp	Met	Glu	Gly	Ala			
		515					520					525						
Met	Glu	Asp	Leu	Gln	Asp	Thr	Phe	Ile	Val	His	Thr	Ile	Glu	Glu	Ile			
		530				535					540							
Gln	Gly	Leu	Thr	Thr	Ala	His	Glu	Gln	Phe	Lys	Ala	Thr	Leu	Pro	Asp			
545					550				555						560			
Ala	Asp	Lys	Glu	Arg	Leu	Ala	Ile	Leu	Gly	Ile	His	Asn	Glu	Val	Ser			
				565				570					575					
Lys	Ile	Val	Gln	Thr	Tyr	His	Val	Asn	Met	Ala	Gly	Thr	Asn	Pro	Tyr			
			580					585					590					
Thr	Thr	Ile	Thr	Pro	Gln	Glu	Ile	Asn	Gly	Lys	Trp	Asp	His	Val	Arg			
		595					600					605						
Gln	Leu	Val	Pro	Arg	Arg	Asp	Gln	Ala	Leu	Thr	Glu	Glu	His	Ala	Arg			
		610				615					620							
Gln	Gln	His	Asn	Glu	Ser	Val	Arg	Lys	Gln	Phe	Gly	Ala	Gln	Ala	Asn			
625					630				635						640			
Val	Ile	Gly	Pro	Trp	Ile	Gln	Thr	Lys	Met	Glu	Glu	Ile	Gly	Arg	Ile			
				645				650				655						
Ser	Ile	Glu	Met	His	Gly	Thr	Leu	Glu	Asp	Gln	Leu	Ser	His	Leu	Arg			
			660					665				670						
Gln	Tyr	Glu	Lys	Ser	Ile	Val	Asn	Tyr	Lys	Pro	Lys	Ile	Asp	Gln	Leu			
		675					680					685						
Glu	Gly	Asp	His	Gln	Leu	Ile	Gln	Glu	Ala	Leu	Ile	Phe	Asp	Asn	Lys			
		690				695					700							
His	Thr	Asn	Tyr	Thr	Met	Glu	His	Ile	Arg	Val	Gly	Trp	Glu	Gln	Leu			
705					710				715						720			
Leu	Thr	Thr	Ile	Ala	Arg	Thr	Ile	Asn	Glu	Val	Glu	Asn	Gln	Ile	Leu			
				725					730				735					
Thr	Arg	Asp	Ala	Lys	Gly	Ile	Ser	Gln	Glu	Gln	Met	Asn	Glu	Phe	Arg			
			740					745				750						
Ala	Ser	Phe	Asn	His	Phe	Asp	Arg	Asp	His	Ser	Gly	Thr	Leu	Gly	Pro			
		755					760				765							
Glu	Glu	Phe	Lys	Ala	Cys	Leu	Ile	Ser	Leu	Gly	Tyr	Asp	Ile	Gly	Asn			
		770				775					780							
Asp	Pro	Gln	Gly	Glu	Ala	Glu	Phe	Ala	Arg	Ile	Met	Ser	Ile	Val	Asp			
785					790				795						800			
Pro	Asn	Arg	Leu	Gly	Val	Val	Thr	Phe	Gln	Ala	Phe	Ile	Asp	Phe	Met			

				805						810					815				
Ser	Arg	Glu	Thr	Ala	Asp	Thr	Asp	Thr	Ala	Asp	Gln	Val	Met	Ala	Ser				
				820						825					830				
Phe	Lys	Ile	Leu	Ala	Gly	Asp	Lys	Asn	Tyr	Ile	Thr	Met	Asp	Glu	Leu				
				835						840					845				
Arg	Arg	Glu	Leu	Pro	Pro	Asp	Gln	Ala	Glu	Tyr	Cys	Ile	Ala	Arg	Met				
				850						855					860				
Ala	Pro	Tyr	Thr	Gly	Pro	Asp	Ser	Val	Pro	Gly	Ala	Leu	Asp	Tyr	Met				
				865						870					875				880
Ser	Phe	Ser	Thr	Ala	Leu	Tyr	Gly	Glu	Ser	Asp	Leu								
				325						890									

<210> 8
 <211> 448
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Tubulin alpha-4 chain
 <222> (1)..(448)
 <223> Accession NO: P05215
 <400> 8

Met	Arg	Glu	Cys	Ile	Ser	Val	His	Val	Gly	Gln	Ala	Gly	Val	Gln	Met				
1				5					10					15					
Gly	Asn	Ala	Cys	Trp	Glu	Leu	Tyr	Cys	Leu	Glu	His	Gly	Ile	Gln	Pro				
				20					25					30					
Asp	Gly	Gln	Met	Pro	Ser	Asp	Lys	Thr	Ile	Gly	Gly	Gly	Asp	Asp	Ser				
				35					40					45					
Phe	Thr	Thr	Phe	Phe	Cys	Glu	Thr	Gly	Ala	Gly	Lys	His	Val	Pro	Arg				
				50					55					60					
Ala	Val	Phe	Val	Asp	Leu	Glu	Pro	Thr	Val	Ile	Asp	Glu	Ile	Arg	Asn				
				65					70					75					80
Gly	Pro	Tyr	Arg	Gln	Leu	Phe	His	Pro	Glu	Gln	Leu	Ile	Thr	Gly	Lys				
				85					90					95					
Glu	Asp	Ala	Ala	Asn	Asn	Tyr	Ala	Arg	Gly	His	Tyr	Thr	Ile	Gly	Lys				
				100					105					110					
Glu	Ile	Ile	Asp	Pro	Val	Leu	Asp	Arg	Ile	Arg	Lys	Leu	Ser	Asp	Gln				
				115					120					125					
Cys	Thr	Gly	Leu	Gln	Gly	Phe	Leu	Val	Phe	His	Ser	Phe	Gly	Gly	Gly				
				130					135					140					

Thr Gly Ser Gly Phe Thr Ser Leu Leu Met Glu Arg Leu Ser Val Asp																	
145					150				155								160
Tyr Gly Lys Lys Ser Lys Leu Glu Phe Ser Ile Tyr Pro Ala Pro Gln																	
				165				170									175
Val Ser Thr Ala Val Val Glu Pro Tyr Asn Ser Ile Leu Thr Thr His																	
			180					185									190
Thr Thr Leu Glu His Ser Asp Cys Ala Phe Met Val Asp Asn Glu Ala																	
			195					200									205
Ile Tyr Asp Ile Cys Arg Arg Asn Leu Asp Ile Glu Arg Pro Thr Tyr																	
			210					215									220
Thr Asn Leu Asn Arg Leu Ile Ser Gln Ile Val Ser Ser Ile Thr Ala																	
			225					230									240
Ser Leu Arg Phe Asp Gly Ala Leu Asn Val Asp Leu Thr Glu Phe Gln																	
			245														255
Thr Asn Leu Val Pro Tyr Pro Arg Ile His Phe Pro Leu Ala Thr Tyr																	
			260														270
Ala Pro Val Ile Ser Ala Glu Lys Ala Tyr His Glu Gln Leu Ser Val																	
			275														285
Ala Glu Ile Thr Asn Ala Cys Phe Glu Pro Ala Asn Gln Met Val Lys																	
			290														300
Cys Asp Pro Arg His Gly Lys Tyr Met Ala Cys Cys Leu Leu Tyr Arg																	
			305														320
Gly Asp Val Val Pro Lys Asp Val Asn Ala Ala Ile Ala Ala Ile Lys																	
			325														335
Thr Lys Arg Ser Ile Gln Phe Val Asp Trp Cys Pro Thr Gly Phe Lys																	
			340														350
Val Gly Ile Asn Tyr Gln Pro Pro Thr Val Val Pro Gly Gly Asp Leu																	
			355														365
Ala Lys Val Gln Arg Ala Val Cys Met Leu Ser Asn Thr Thr Ala Ile																	
			370														380
Ala Glu Ala Trp Ala Arg Leu Asp His Lys Phe Asp Leu Met Tyr Ala																	
			385														400
Lys Arg Ala Phe Val His Trp Tyr Val Gly Glu Gly Met Glu Glu Gly																	
			405														415
Glu Phe Ser Glu Ala Arg Glu Asp Met Ala Ala Leu Glu Lys Asp Tyr																	
			420														430
Glu Glu Val Gly Ile Asp Ser Tyr Glu Asp Glu Asp Glu Gly Glu Glu																	
			435														445

<210> 9

<211> 2647
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Filamin A
 <222> (1)..(2647)
 <223> Accession NO: P21333
 <400> 9

Met	Ser	Ser	Ser	His	Ser	Arg	Ala	Gly	Gln	Ser	Ala	Ala	Gly	Ala	Ala	1	5	10	15
Pro	Gly	Gly	Gly	Val	Asp	Thr	Arg	Asp	Ala	Glu	Met	Pro	Ala	Thr	Glu	20	25	30	
Lys	Asp	Leu	Ala	Glu	Asp	Ala	Pro	Trp	Lys	Lys	Ile	Gln	Gln	Asn	Thr	35	40	45	
Phe	Thr	Arg	Trp	Cys	Asn	Glu	His	Leu	Lys	Cys	Val	Ser	Lys	Arg	Ile	50	55	60	
Ala	Asn	Leu	Gln	Thr	Asp	Leu	Ser	Asp	Gly	Leu	Arg	Leu	Ile	Ala	Leu	65	70	75	80
Leu	Glu	Val	Leu	Ser	Gln	Lys	Lys	Met	His	Arg	Lys	His	Asn	Gln	Arg	85	90	95	
Pro	Thr	Phe	Arg	Gln	Met	Gln	Leu	Glu	Asn	Val	Ser	Val	Ala	Leu	Glu	100	105	110	
Phe	Leu	Asp	Arg	Glu	Ser	Ile	Lys	Leu	Val	Ser	Ile	Asp	Ser	Lys	Ala	115	120	125	
Ile	Val	Asp	Gly	Asn	Leu	Lys	Leu	Ile	Leu	Gly	Leu	Ile	Trp	Thr	Leu	130	135	140	
Ile	Leu	His	Tyr	Ser	Ile	Ser	Met	Pro	Met	Trp	Asp	Glu	Glu	Glu	Asp	145	150	155	160
Glu	Glu	Ala	Lys	Lys	Gln	Thr	Pro	Lys	Gln	Arg	Leu	Leu	Gly	Trp	Ile	165	170	175	
Gln	Asn	Lys	Leu	Pro	Gln	Leu	Pro	Ile	Thr	Asn	Phe	Ser	Arg	Asp	Trp	180	185	190	
Gln	Ser	Gly	Arg	Ala	Leu	Gly	Ala	Leu	Val	Asp	Ser	Cys	Ala	Pro	Gly	195	200	205	
Leu	Cys	Pro	Asp	Trp	Asp	Ser	Trp	Asp	Ala	Ser	Lys	Pro	Val	Thr	Asn	210	215	220	
Ala	Arg	Glu	Ala	Met	Gln	Gln	Ala	Asp	Asp	Trp	Leu	Gly	Ile	Pro	Gln	225	230	235	240
Val	Ile	Thr	Pro	Glu	Glu	Ile	Val	Asp	Pro	Asn	Val	Asp	Glu	His	Ser	245	250	255	

- 21 -

	580		585		590
Lys	Ser	Ala	Asp	Phe	Val
	595		600		605
Leu	Gly	Phe	Ser	Val	Glu
	610		615		620
Asp	Lys	Gly	Asp	Gly	Ser
	625		630		635
Gly	Glu	Tyr	Ala	Val	His
			645		650
Ser	Pro	Phe	Met	Ala	Asp
	660		665		670
Asp	Arg	Val	Lys	Ala	Arg
	675		680		685
Val	Asn	Lys	Pro	Ala	Glu
	690		695		700
Ala	Pro	Leu	Arg	Val	Gln
	705		710		715
Ala	Leu	Val	Lys	Asp	Asn
			725		730
Pro	Arg	Lys	Pro	Val	Lys
	740		745		750
Ser	Ile	Pro	Asn	Ser	Pro
	755		760		765
Pro	Asn	Lys	Val	Lys	Val
	770		775		780
Lys	Ala	His	Glu	Pro	Thr
	785		790		795
Gln	Gly	Asp	Val	Ser	Ile
			805		810
Pro	Ala	Glu	Ala	Asp	Ile
	820		825		830
Thr	Phe	Thr	Val	Lys	Tyr
	835		840		845
Met	Val	Leu	Phe	Ala	Asp
	850		855		860
Lys	Val	Glu	Pro	Ser	His
	865		870		875
Gly	Leu	Ser	Arg	Thr	Gly
			885		890
Val	Asn	Ala	Lys	Ala	Ala
	900		905		910

Gly Leu Thr Lys Gly Asp Ala Val Arg Asp Val Asp Ile Ile Asp His
 915 920 925
 His Asp Asn Thr Tyr Thr Val Lys Tyr Thr Pro Val Gln Gln Gly Pro
 930 935 940
 Val Gly Val Asn Val Thr Tyr Gly Gly Asp Pro Ile Pro Lys Ser Pro
 945 950 955 960
 Phe Ser Val Ala Val Ser Pro Ser Leu Asp Leu Ser Lys Ile Lys Val
 965 970 975
 Ser Gly Leu Gly Glu Lys Val Asp Val Gly Lys Asp Gln Glu Phe Thr
 980 985 990
 Val Lys Ser Lys Gly Ala Gly Gly Gln Gly Lys Val Ala Ser Lys Ile
 995 1000 1005
 Val Gly Pro Ser Gly Ala Ala Val Pro Cys Lys Val Glu Pro Gly
 1010 1015 1020
 Leu Gly Ala Asp Asn Ser Val Val Arg Phe Leu Pro Arg Glu Glu
 1025 1030 1035
 Gly Pro Tyr Glu Val Glu Val Thr Tyr Asp Gly Val Pro Val Pro
 1040 1045 1050
 Gly Ser Pro Phe Pro Leu Glu Ala Val Ala Pro Thr Lys Pro Ser
 1055 1060 1065
 Lys Val Lys Ala Phe Gly Pro Gly Leu Gln Gly Gly Ser Ala Gly
 1070 1075 1080
 Ser Pro Ala Arg Phe Thr Ile Asp Thr Lys Gly Ala Gly Thr Gly
 1085 1090 1095
 Gly Leu Gly Leu Thr Val Glu Gly Pro Cys Glu Ala Gln Leu Glu
 1100 1105 1110
 Cys Leu Asp Asn Gly Asp Gly Thr Cys Ser Val Ser Tyr Val Pro
 1115 1120 1125
 Thr Glu Pro Gly Asp Tyr Asn Ile Asn Ile Leu Phe Ala Asp Thr
 1130 1135 1140
 His Ile Pro Gly Ser Pro Phe Lys Ala His Val Val Pro Cys Phe
 1145 1150 1155
 Asp Ala Ser Lys Val Lys Cys Ser Gly Pro Gly Leu Glu Arg Ala
 1160 1165 1170
 Thr Ala Gly Glu Val Gly Gln Phe Gln Val Asp Cys Ser Ser Ala
 1175 1180 1185
 Gly Ser Ala Glu Leu Thr Ile Glu Ile Cys Ser Glu Ala Gly Leu
 1190 1195 1200
 Pro Ala Glu Val Tyr Ile Gln Asp His Gly Asp Gly Thr His Thr
 1205 1210 1215
 Ile Thr Tyr Ile Pro Leu Cys Pro Gly Ala Tyr Thr Val Thr Ile

1220	1225	1230
Lys Tyr Gly Gly Gln Pro Val	Pro Asn Phe Pro Ser	Lys Leu Gln
1235	1240	1245
Val Glu Pro Ala Val Asp Thr	Ser Gly Val Gln Cys	Tyr Gly Pro
1250	1255	1260
Gly Ile Glu Gly Gln Gly Val	Phe Arg Glu Ala Thr	Thr Glu Phe
1265	1270	1275
Ser Val Asp Ala Arg Ala Leu	Thr Gln Thr Gly Gly	Pro His Val
1280	1285	1290
Lys Ala Arg Val Ala Asn Pro	Ser Gly Asn Leu Thr	Glu Thr Tyr
1295	1300	1305
Val Gln Asp Arg Gly Asp Gly	Met Tyr Lys Val Glu	Tyr Thr Pro
1310	1315	1320
Tyr Glu Glu Gly Leu His Ser	Val Asp Val Thr Tyr	Asp Gly Ser
1325	1330	1335
Pro Val Pro Ser Ser Pro Phe	Gln Val Pro Val Thr	Glu Gly Cys
1340	1345	1350
Asp Pro Ser Arg Val Arg Val	His Gly Pro Gly Ile	Gln Ser Gly
1355	1360	1365
Thr Thr Asn Lys Pro Asn Lys	Phe Thr Val Glu Thr	Arg Gly Ala
1370	1375	1380
Gly Thr Gly Gly Leu Gly Leu	Ala Val Glu Gly Pro	Ser Glu Ala
1385	1390	1395
Lys Met Ser Cys Met Asp Asn	Lys Asp Gly Ser Cys	Ser Val Glu
1400	1405	1410
Tyr Ile Pro Tyr Glu Ala Gly	Thr Tyr Ser Leu Asn	Val Thr Tyr
1415	1420	1425
Gly Gly His Gln Val Pro Gly	Ser Pro Phe Lys Val	Pro Val His
1430	1435	1440
Asp Val Thr Asp Ala Ser Lys	Val Lys Cys Ser Gly	Pro Gly Leu
1445	1450	1455
Ser Pro Gly Met Val Arg Ala	Asn Leu Pro Gln Ser	Phe Gln Val
1460	1465	1470
Asp Thr Ser Lys Ala Gly Val	Ala Pro Leu Gln Val	Lys Val Gln
1475	1480	1485
Gly Pro Lys Gly Leu Val Glu	Pro Val Asp Val Val	Asp Asn Ala
1490	1495	1500
Asp Gly Thr Gln Thr Val Asn	Tyr Val Pro Ser Arg	Glu Gly Pro
1505	1510	1515
Tyr Ser Ile Ser Val Leu Tyr	Gly Asp Glu Glu Val	Pro Arg Ser
1520	1525	1530

Pro Phe	Lys Val	Lys Val	Leu	Pro Thr	His Asp	Ala	Ser Lys	Val
1535			1540			1545		
Lys Ala	Ser Gly	Pro Gly	Leu	Asn Thr	Thr Gly	Val	Pro Ala	Ser
1550			1555			1560		
Leu Pro	Val Glu	Phe Thr	Ile	Asp Ala	Lys Asp	Ala	Gly Glu	Gly
1565			1570			1575		
Leu Leu	Ala Val	Gln Ile	Thr	Asp Pro	Glu Gly	Lys	Pro Lys	Lys
1580			1585			1590		

Thr His	Ile Gln	Asp Asn	His	Asp Gly	Thr Tyr	Thr	Val Ala	Tyr
1595			1600			1605		
Val Pro	Asp Val	Thr Gly	Arg	Tyr Thr	Ile Leu	Ile	Lys Tyr	Gly
1610			1615			1620		
Gly Asp	Glu Ile	Pro Phe	Ser	Pro Tyr	Arg Val	Arg	Ala Val	Pro
1625			1630			1635		
Thr Gly	Asp Ala	Ser Lys	Cys	Thr Val	Thr Val	Ser	Ile Gly	Gly
1640			1645			1650		
His Gly	Leu Gly	Ala Gly	Ile	Gly Pro	Thr Ile	Gln	Ile Gly	Glu
1655			1660			1665		
Glu Thr	Val Ile	Thr Val	Asp	Thr Lys	Ala Ala	Gly	Lys Gly	Lys
1670			1675			1680		
Val Thr	Cys Thr	Val Cys	Thr	Pro Asp	Gly Ser	Glu	Val Asp	Val
1685			1690			1695		
Asp Val	Val Glu	Asn Glu	Asp	Gly Thr	Phe Asp	Ile	Phe Tyr	Thr
1700			1705			1710		
Ala Pro	Gln Pro	Gly Lys	Tyr	Val Ile	Cys Val	Arg	Phe Gly	Gly
1715			1720			1725		
Glu His	Val Pro	Asn Ser	Pro	Phe Gln	Val Thr	Ala	Leu Ala	Gly
1730			1735			1740		
Asp Gln	Pro Ser	Val Gln	Pro	Pro Leu	Arg Ser	Gln	Gln Leu	Ala
1745			1750			1755		
Pro Gln	Tyr Thr	Tyr Ala	Gln	Gly Gly	Gln Gln	Thr	Trp Ala	Pro
1760			1765			1770		
Glu Arg	Pro Leu	Val Gly	Val	Asn Gly	Leu Asp	Val	Thr Ser	Leu
1775			1780			1785		
Arg Pro	Phe Asp	Leu Val	Ile	Pro Phe	Thr Ile	Lys	Lys Gly	Glu
1790			1795			1800		
Ile Thr	Gly Glu	Val Arg	Met	Pro Ser	Gly Lys	Val	Ala Gln	Pro
1805			1810			1815		
Thr Ile	Thr Asp	Asn Lys	Asp	Gly Thr	Val Thr	Val	Arg Tyr	Ala

1820	1825	1830
Pro Ser Glu Ala Gly Leu His	Glu Met Asp Ile Arg	Tyr Asp Asn
1835	1840	1845
Met His Ile Pro Gly Ser Pro	Leu Gln Phe Tyr Val	Asp Tyr Val
1850	1855	1860
Asn Cys Gly His Val Thr Ala	Tyr Gly Pro Gly Leu	Thr His Gly
1865	1870	1875
Val Val Asn Lys Pro Ala Thr	Phe Thr Val Asn Thr	Lys Asp Ala
1880	1885	1890
Gly Glu Gly Gly Leu Ser Leu	Ala Ile Glu Gly Pro	Ser Lys Ala
1895	1900	1905
Glu Ile Ser Cys Thr Asp Asn	Gln Asp Gly Thr Cys	Ser Val Ser
1910	1915	1920
Tyr Leu Pro Val Leu Pro Gly	Asp Tyr Ser Ile Leu	Val Lys Tyr
1925	1930	1935
Asn Glu Gln His Val Pro Gly	Ser Pro Phe Thr Ala	Arg Val Thr
1940	1945	1950
Gly Asp Asp Ser Met Arg Met	Ser His Leu Lys Val	Gly Ser Ala
1955	1960	1965
Ala Asp Ile Pro Ile Asn Ile	Ser Glu Thr Asp Leu	Ser Leu Leu
1970	1975	1980
Thr Ala Thr Val Val Pro Pro	Ser Gly Arg Glu Glu	Pro Cys Leu
1985	1990	1995
Leu Lys Arg Leu Arg Asn Gly	His Val Gly Ile Ser	Phe Val Pro
2000	2005	2010
Lys Glu Thr Gly Glu His Leu	Val His Val Lys Lys	Asn Gly Gln
2015	2020	2025
His Val Ala Ser Ser Pro Ile	Pro Val Val Ile Ser	Gln Ser Glu
2030	2035	2040
Ile Gly Asp Ala Ser Arg Val	Arg Val Ser Gly Gln	Gly Leu His
2045	2050	2055
Glu Gly His Thr Phe Glu Pro	Ala Glu Phe Ile Ile	Asp Thr Arg
2060	2065	2070
Asp Ala Gly Tyr Gly Gly Leu	Ser Leu Ser Ile Glu	Gly Pro Ser
2075	2080	2085
Lys Val Asp Ile Asn Thr Glu	Asp Leu Glu Asp Gly	Thr Cys Arg
2090	2095	2100
Val Thr Tyr Cys Pro Thr Glu	Pro Gly Asn Tyr Ile	Ile Asn Ile
2105	2110	2115
Lys Phe Ala Asp Gln His Val	Pro Gly Ser Pro Phe	Ser Val Lys
2120	2125	2130

Val Thr Gly Glu Gly Arg	Val Lys Glu Ser Ile Thr	Arg Arg Arg
2135	2140	2145
Arg Ala Pro Ser Val Ala Asn	Val Gly Ser His Cys	Asp Leu Ser
2150	2155	2160
Leu Lys Ile Pro Glu Ile Ser	Ile Gln Asp Met Thr	Ala Gln Val
2165	2170	2175
Thr Ser Pro Ser Gly Lys Thr	His Glu Ala Glu Ile	Val Glu Gly
2180	2185	2190
Glu Asn His Thr Tyr Cys Ile	Arg Phe Val Pro Ala	Glu Met Gly
2195	2200	2205
Thr His Thr Val Ser Val Lys	Tyr Lys Gly Gln His	Val Pro Gly
2210	2215	2220
Ser Pro Phe Gln Phe Thr Val	Gly Pro Leu Gly Glu	Gly Gly Ala
2225	2230	2235
His Lys Val Arg Ala Gly Gly	Pro Gly Leu Glu Arg	Ala Glu Ala
2240	2245	2250
Gly Val Pro Ala Glu Phe Ser	Ile Trp Thr Arg Glu	Ala Gly Ala
2255	2260	2265
Gly Gly Leu Ala Ile Ala Val	Glu Gly Pro Ser Lys	Ala Glu Ile
2270	2275	2280
Ser Phe Glu Asp Arg Lys Asp	Gly Ser Cys Gly Val	Ala Tyr Val
2285	2290	2295
Val Gln Glu Pro Gly Asp Tyr	Glu Val Ser Val Lys	Phe Asn Glu
2300	2305	2310
Glu His Ile Pro Asp Ser Pro	Phe Val Val Pro Val	Ala Ser Pro
2315	2320	2325
Ser Gly Asp Ala Arg Arg Leu	Thr Val Ser Ser Leu	Gln Glu Ser
2330	2335	2340
Gly Leu Lys Val Asn Gln Pro	Ala Ser Phe Ala Val	Ser Leu Asn
2345	2350	2355
Gly Ala Lys Gly Ala Ile Asp	Ala Lys Val His Ser	Pro Ser Gly
2360	2365	2370
Ala Leu Glu Glu Cys Tyr Val	Thr Glu Ile Asp Gln	Asp Lys Tyr
2375	2380	2385
Ala Val Arg Phe Ile Pro Arg	Glu Asn Gly Val Tyr	Leu Ile Asp
2390	2395	2400
Val Lys Phe Asn Gly Thr His	Ile Pro Gly Ser Pro	Phe Lys Ile
2405	2410	2415
Arg Val Gly Glu Pro Gly His	Gly Gly Asp Pro Gly	Leu Val Ser
2420	2425	2430
Ala Tyr Gly Ala Gly Leu Glu	Gly Gly Val Thr Gly	Asn Pro Ala

2435	2440	2445
Glu Phe Val Val Asn Thr Ser	Asn Ala Gly Ala Gly	Ala Leu Ser
2450	2455	2460
Val Thr Ile Asp Gly Pro Ser	Lys Val Lys Met Asp	Cys Gln Glu
2465	2470	2475
Cys Pro Glu Gly Tyr Arg Val	Thr Tyr Thr Pro Met	Ala Pro Gly
2480	2485	2490
Ser Tyr Leu Ile Ser Ile Lys	Tyr Gly Gly Pro Tyr	His Ile Gly
2495	2500	2505
Gly Ser Pro Phe Lys Ala Lys	Val Thr Gly Pro Arg	Leu Val Ser
2510	2515	2520
Asn His Ser Leu His Glu Thr	Ser Ser Val Phe Val	Asp Ser Leu
2525	2530	2535
Thr Lys Ala Thr Cys Ala Pro	Gln His Gly Ala Pro	Gly Pro Gly
2540	2545	2550
Pro Ala Asp Ala Ser Lys Val	Val Ala Lys Gly Leu	Gly Leu Ser
2555	2560	2565
Lys Ala Tyr Val Gly Gln Lys	Ser Ser Phe Thr Val	Asp Cys Ser
2570	2575	2580
Lys Ala Gly Asn Asn Met Leu	Leu Val Gly Val His	Gly Pro Arg
2585	2590	2595
Thr Pro Cys Glu Glu Ile Leu	Val Lys His Val Gly	Ser Arg Leu
2600	2605	2610
Tyr Ser Val Ser Tyr Leu Leu	Lys Asp Lys Gly Glu	Tyr Thr Leu
2615	2620	2625
Val Val Lys Trp Gly His Glu	His Ile Pro Gly Ser	Pro Tyr Arg
2630	2635	2640
Val Val Val Pro		
2645		

<210> 10
 <211> 199
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Transgelin 2
 <222> (1)..(199)
 <223> Accession NO: as of 06 Dec 2002: P37802
 <400> 10

Met Ala Asn Arg Gly Pro Ala Tyr Gly Leu Ser Arg Glu Val Gln Gln
 1 5 10 15
 Lys Ile Glu Lys Gln Tyr Asp Ala Asp Leu Glu Gln Ile Leu Ile Gln
 20 25 30
 Trp Ile Thr Thr Gln Cys Arg Lys Asp Val Gly Arg Pro Gln Pro Gly
 35 40 45
 Arg Glu Asn Phe Gln Asn Trp Leu Lys Asp Gly Thr Val Leu Cys Glu
 50 55 60
 Leu Ile Asn Ala Leu Tyr Pro Glu Gly Gln Ala Pro Val Lys Lys Ile
 65 70 75 80
 Gln Ala Ser Thr Met Ala Phe Lys Gln Met Glu Gln Ile Ser Gln Phe
 85 90 95
 Leu Gln Ala Ala Glu Arg Tyr Gly Ile Asn Thr Thr Asp Ile Phe Gln
 100 105 110
 Thr Val Asp Leu Trp Glu Gly Lys Asn Met Ala Cys Val Gln Arg Thr
 115 120 125
 Leu Met Asn Leu Gly Gly Leu Ala Val Ala Arg Asp Asp Gly Leu Phe
 130 135 140
 Ser Gly Asp Pro Asn Trp Phe Pro Lys Lys Ser Lys Glu Asn Pro Arg
 145 150 155 160
 Asn Phe Ser Asp Asn Gln Leu Gln Glu Gly Lys Asn Val Ile Gly Leu
 165 170 175
 Gln Met Gly Thr Asn Arg Gly Ala Ser Gln Ala Gly Met Thr Gly Tyr
 180 185 190
 Gly Met Pro Arg Gln Ile Leu
 195

<210> 11
 <211> 248
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Tropomyosin alpha 4 chain
 <222> (1)..(248)
 <223> Accession NO: P07226
 <400> 11

Met Ala Gly Leu Asn Ser Leu Glu Ala Val Lys Arg Lys Ile Gln Ala
 1 5 10 15
 Leu Gln Gln Gln Ala Asp Glu Ala Glu Asp Arg Ala Gln Gly Leu Gln

	20		25		30										
Arg	Glu	Leu	Asp	Gly	Glu	Arg	Glu	Arg	Arg	Glu	Lys	Ala	Glu	Gly	Asp
	35					40						45			
Val	Ala	Ala	Leu	Asn	Arg	Arg	Ile	Gln	Leu	Val	Glu	Glu	Glu	Leu	Asp
	50					55						60			
Arg	Ala	Gln	Glu	Arg	Leu	Ala	Thr	Ala	Leu	Gln	Lys	Leu	Glu	Glu	Ala
65					70					75					80
Glu	Lys	Ala	Ala	Asp	Glu	Ser	Glu	Arg	Gly	Met	Lys	Val	Ile	Glu	Asn
			85						90					95	
Arg	Ala	Met	Lys	Asp	Glu	Glu	Lys	Met	Glu	Ile	Gln	Glu	Met	Gln	Leu
		100						105					110		
Lys	Glu	Ala	Lys	His	Ile	Ala	Glu	Glu	Ala	Asp	Arg	Lys	Tyr	Glu	Glu
	115					120						125			
Val	Ala	Arg	Lys	Leu	Val	Ile	Leu	Glu	Gly	Glu	Leu	Glu	Arg	Ala	Glu
	130					135					140				
Glu	Arg	Ala	Glu	Val	Ser	Glu	Leu	Lys	Cys	Gly	Asp	Leu	Glu	Glu	Glu
145				150					155					160	
Leu	Lys	Asn	Val	Thr	Asn	Asn	Leu	Lys	Ser	Leu	Glu	Ala	Ala	Ser	Glu
			165						170					175	
Lys	Tyr	Ser	Glu	Lys	Glu	Asp	Lys	Tyr	Glu	Glu	Glu	Ile	Lys	Leu	Leu
		180						185					190		
Ser	Asp	Lys	Leu	Lys	Glu	Ala	Glu	Thr	Arg	Ala	Glu	Phe	Ala	Glu	Arg
	195						200					205			
Thr	Val	Ala	Lys	Leu	Glu	Lys	Thr	Ile	Asp	Asp	Leu	Glu	Glu	Lys	Leu
	210					215					220				
Ala	Gln	Ala	Lys	Glu	Glu	Asn	Val	Gly	Leu	His	Gln	Thr	Leu	Asp	Gln
225				230					235					240	
Thr	Leu	Asn	Glu	Leu	Asn	Cys	Ile								
			245												

<210> 12
 <211> 793
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Caldesmon
 <222> (1)..(793)
 <223> Accession NO: as of 06 Dec 2002: Q05682
 <400> 12

Met	Asp	Asp	Phe	Glu	Arg	Arg	Arg	Glu	Leu	Arg	Arg	Gln	Lys	Arg	Glu
1			5					10				15			
Glu	Met	Arg	Leu	Glu	Ala	Glu	Arg	Ile	Ala	Tyr	Gln	Arg	Asn	Asp	Asp
		20					25				30				
Asp	Glu	Glu	Glu	Ala	Ala	Arg	Glu	Arg	Arg	Arg	Arg	Ala	Arg	Gln	Glu
	35						40				45				
Arg	Leu	Arg	Gln	Lys	Gln	Glu	Glu	Ser	Leu	Gly	Gln	Val	Thr	Asp	
	50				55				60						
Gln	Val	Glu	Val	Asn	Ala	Gln	Asn	Ser	Val	Pro	Asp	Glu	Glu	Ala	Lys
65				70					75					80	
Thr	Thr	Thr	Thr	Asn	Thr	Gln	Val	Glu	Gly	Asp	Asp	Glu	Ala	Ala	Phe
			85				90				95				
Leu	Glu	Arg	Leu	Ala	Arg	Arg	Glu	Glu	Arg	Arg	Gln	Lys	Arg	Leu	Gln
		100					105				110				
Glu	Ala	Leu	Glu	Arg	Gln	Lys	Glu	Phe	Asp	Pro	Thr	Ile	Thr	Asp	Ala
	115					120			125						
Ser	Leu	Ser	Leu	Pro	Ser	Arg	Arg	Met	Gln	Asn	Asp	Thr	Ala	Glu	Asn
	130					135			140						
Glu	Thr	Thr	Glu	Lys	Glu	Glu	Lys	Ser	Glu	Ser	Arg	Gln	Glu	Arg	Tyr
145				150					155					160	
Glu	Ile	Glu	Glu	Thr	Glu	Thr	Val	Thr	Lys	Ser	Tyr	Gln	Lys	Asn	Asp
			165				170				175				
Trp	Arg	Asp	Ala	Glu	Glu	Asn	Lys	Lys	Glu	Asp	Lys	Glu	Lys	Glu	Glu
		180					185				190				
Glu	Glu	Glu	Glu	Lys	Pro	Lys	Arg	Gly	Ser	Ile	Gly	Glu	Asn	Gln	Val
	195					200			205						
Glu	Val	Met	Val	Glu	Glu	Lys	Thr	Thr	Glu	Ser	Gln	Glu	Glu	Thr	Val
	210					215			220						
Val	Met	Ser	Leu	Lys	Asn	Gly	Gln	Ile	Ser	Ser	Glu	Glu	Pro	Lys	Gln
225				230					235					240	
Glu	Glu	Glu	Arg	Glu	Gln	Gly	Ser	Asp	Glu	Ile	Ser	His	His	Glu	Lys
			245				250				255				
Met	Glu	Glu	Glu	Asp	Lys	Glu	Arg	Ala	Glu	Ala	Glu	Arg	Ala	Arg	Leu
		260					265				270				
Glu	Ala	Glu	Glu	Arg	Glu	Arg	Ile	Lys	Ala	Glu	Gln	Asp	Lys	Lys	Ile
	275					280			285						
Ala	Asp	Glu	Arg	Ala	Arg	Ile	Glu	Ala	Glu	Glu	Lys	Ala	Ala	Ala	Gln
	290					295			300						
Glu	Arg	Glu	Arg	Arg	Glu	Ala	Glu	Glu	Arg	Glu	Arg	Met	Arg	Glu	Glu
305				310					315					320	
Glu	Lys	Arg	Ala	Ala	Glu	Glu	Arg	Gln	Arg	Ile	Lys	Glu	Glu	Glu	Lys

Val Gln Lys Ser Ser Gly Val Lys Ser Thr His Gln Ala Ala Ile Val
 660 665 670
 Ser Lys Ile Asp Ser Arg Leu Glu Gln Tyr Thr Ser Ala Ile Glu Gly
 675 680 685
 Thr Lys Ser Ala Lys Pro Thr Lys Pro Ala Ala Ser Asp Leu Pro Val
 690 695 700
 Pro Ala Glu Gly Val Arg Asn Ile Lys Ser Met Trp Glu Lys Gly Asn
 705 710 715 720
 Val Phe Ser Ser Pro Thr Ala Ala Gly Thr Pro Asn Lys Glu Thr Ala
 725 730 735
 Gly Leu Lys Val Gly Val Ser Ser Arg Ile Asn Glu Trp Leu Thr Lys
 740 745 750
 Thr Pro Asp Gly Asn Lys Ser Pro Ala Pro Lys Pro Ser Asp Leu Arg
 755 760 765
 Pro Gly Asp Val Ser Ser Lys Arg Asn Leu Trp Glu Lys Gln Ser Val
 770 775 780
 Asp Lys Val Thr Ser Pro Thr Lys Val
 325 790

<210> 13
 <211> 458
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Alpha enolase
 <222> (1)..(458)
 <223> Accession NO: as of 06 Dec 2002: Q05524
 <400> 13

Met Ser Ile Leu Lys Ile Ile His Ala Arg Asp Ile Phe Glu Ser Arg
 1 5 10 15
 Gly Asn Pro Thr Val Glu Val Asp Leu Tyr Thr Asn Lys Gly Gly Leu
 20 25 30
 Phe Gly Arg Ala Ala Val Pro Ser Gly Ala Ser Thr Gly Ile Tyr Glu
 35 40 45
 Ala Leu Leu Glu Leu Arg Asp Asn Asp Lys Thr Arg Tyr Met Gly Gly
 50 55 60
 Lys Gly Val Ser Lys Ala Val Glu His Ile Ile Asn Lys Thr Ile Ala
 65 70 75 80
 Pro Ala Leu Ile Ser Lys Asn Val Asn Val Val Glu Gln Asp Lys Ile

				85						90					95	
Asp	Asn	Leu	Met	Leu	Asp	Met	Asp	Gly	Ser	Glu	Asn	Lys	Ser	Lys	Phe	
			100						105					110		
Gly	Ala	Asn	Ala	Ile	Leu	Gly	Val	Ser	Leu	Ala	Val	Cys	Ser	Asn	Ala	
		115					120					125				
Gly	Ala	Thr	Ala	Glu	Lys	Gly	Val	Pro	Leu	Tyr	Arg	His	Ile	Ala	Asp	
		130					135					140				
Leu	Ala	Gly	Asn	Asn	Pro	Glu	Val	Ile	Leu	Pro	Val	Pro	Ala	Phe	Asn	
145					150					155					160	
Val	Ile	Asn	Gly	Gly	Ser	His	Ala	Gly	Asn	Lys	Leu	Ala	Met	Gln	Glu	
			165						170					175		
Phe	Met	Ile	Pro	Pro	Cys	Gly	Ala	Asp	Arg	Phe	Asn	Asp	Ala	Ile	Arg	
			180					185					190			
Ile	Gly	Ala	Glu	Val	Tyr	His	Asn	Leu	Lys	Asn	Val	Ile	Lys	Glu	Lys	
		195					200					205				
Tyr	Gly	Lys	Asp	Ala	Thr	Asn	Val	Gly	Asp	Glu	Gly	Gly	Phe	Ala	Pro	
		210					215					220				
Asn	Ile	Leu	Glu	Asn	Lys	Glu	Ala	Leu	Glu	Leu	Leu	Lys	Thr	Ala	Ile	
225					230					235					240	
Gly	Lys	Ala	Gly	Tyr	Ser	Asp	Lys	Val	Val	Ile	Gly	Met	Asp	Val	Ala	
			245						250				255			
Ala	Ser	Glu	Phe	Tyr	Arg	Asp	Gly	Lys	Tyr	Asp	Leu	Asp	Phe	Asn	Ser	
			260					265					270			
Pro	Asp	Asp	Pro	Ser	Arg	Tyr	Ile	Ser	Pro	Asp	Gln	Leu	Ala	Asp	Leu	
		275					280					285				
Tyr	Lys	Gly	Phe	Val	Leu	Gly	His	Ala	Val	Lys	Asn	Tyr	Pro	Val	Gly	
		290					295					300				
Val	Ser	Ile	Glu	Asp	Pro	Pro	Phe	Asp	Gln	Asp	Asp	Trp	Gly	Ala	Trp	
305					310				315					320		
Lys	Lys	Leu	Phe	Thr	Gly	Ser	Leu	Val	Gly	Ile	Gln	Val	Val	Gly	Asp	
			325						330				335			
Asp	Leu	Thr	Val	Thr	Lys	Pro	Glu	Ala	Arg	Ile	Ala	Lys	Ala	Val	Glu	
		340						345				350				
Glu	Val	Lys	Ala	Cys	Asn	Cys	Leu	Leu	Leu	Lys	Val	Asn	Gln	Ile		
		355					360				365					
Gly	Ser	Val	Thr	Glu	Ser	Leu	Gln	Ala	Cys	Lys	Leu	Ala	Gln	Ser	Asn	
		370					375				380					
Gly	Trp	Gly	Val	Met	Pro	Val	Ser	His	Arg	Leu	Ser	Gly	Glu	Thr	Glu	
385					390				395					400		
Asp	Thr	Phe	Met	Ala	Asp	Leu	Val	Val	Gly	Leu	Cys	Thr	Gly	Gln	Ile	
			405					410				415				

Lys Thr Gly Pro Thr Cys Arg Ser Glu Arg Leu Ala Lys Tyr Asn Gln
 420 425 430
 Leu Leu Arg Ile Glu Glu Ala Glu Ala Gly Ser Lys Ala Arg Phe Ala
 435 440 445
 Gly Arg Asn Phe Arg Asn Pro Arg Ile Asn
 325 455

<210> 14
 <211> 408
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Aminoacylase-1
 <222> (1)..(408)
 <223> Accession NO: .as of 06 Dec 2002: Q03154
 <400> 14

Met Thr Ser Lys Gly Pro Glu Glu Glu His Pro Ser Val Thr Leu Phe
 1 5 10 15
 Arg Gln Tyr Leu Arg Ile Arg Thr Val Gln Pro Lys Pro Asp Tyr Gly
 20 25 30
 Ala Ala Val Ala Phe Phe Glu Glu Thr Ala Arg Gln Leu Gly Leu Gly
 35 40 45
 Cys Gln Lys Val Glu Val Ala Pro Gly Tyr Val Val Thr Val Leu Thr
 50 55 60
 Trp Pro Gly Thr Asn Pro Thr Leu Ser Ser Ile Leu Leu Asn Ser His
 65 70 75 80
 Thr Asp Val Val Pro Val Phe Lys Glu His Trp Ser His Asp Pro Phe
 85 90 95
 Glu Ala Phe Lys Asp Ser Glu Gly Tyr Ile Tyr Ala Arg Gly Ala Gln
 100 105 110
 Asp Met Lys Cys Val Ser Ile Gln Tyr Leu Glu Ala Val Arg Arg Leu
 115 120 125
 Lys Val Glu Gly His Arg Phe Pro Arg Thr Ile His Met Thr Phe Val
 130 135 140
 Pro Asp Glu Glu Val Gly Gly His Gln Gly Met Glu Leu Phe Val Gln
 145 150 155 160
 Arg Pro Glu Phe His Ala Leu Arg Ala Gly Phe Ala Leu Asp Glu Gly
 165 170 175
 Ile Ala Asn Pro Thr Asp Ala Phe Thr Val Phe Tyr Ser Glu Arg Ser

	180		185		190										
Pro	Trp	Trp	Val	Arg	Val	Thr	Ser	Thr	Gly	Arg	Pro	Gly	His	Ala	Ser
	195						200					205			
Arg	Phe	Met	Glu	Asp	Thr	Ala	Ala	Glu	Lys	Leu	His	Lys	Val	Val	Asn
	210					215					220				
Ser	Ile	Leu	Ala	Phe	Arg	Glu	Lys	Glu	Trp	Gln	Arg	Leu	Gln	Ser	Asn
225					230					235					240
Pro	His	Leu	Lys	Glu	Gly	Ser	Val	Thr	Ser	Val	Asn	Leu	Thr	Lys	Leu
			245						250				255		
Glu	Gly	Gly	Val	Ala	Tyr	Asn	Val	Ile	Pro	Ala	Thr	Met	Ser	Ala	Ser
			260					265					270		
Phe	Asp	Phe	Arg	Val	Ala	Pro	Asp	Val	Asp	Phe	Lys	Ala	Phe	Glu	Glu
	275					280					285				
Gln	Leu	Gln	Ser	Trp	Cys	Gln	Ala	Ala	Gly	Glu	Gly	Val	Thr	Leu	Glu
	290					295					300				
Phe	Ala	Gln	Lys	Trp	Met	His	Pro	Gln	Val	Thr	Pro	Thr	Asp	Asp	Ser
305					310					315					320
Asn	Pro	Trp	Trp	Ala	Ala	Phe	Ser	Arg	Val	Cys	Lys	Asp	Met	Asn	Leu
			325						330					335	
Thr	Leu	Glu	Pro	Glu	Ile	Met	Pro	Ala	Ala	Thr	Asp	Asn	Arg	Tyr	Ile
			340					345					350		
Arg	Ala	Val	Gly	Val	Pro	Ala	Leu	Gly	Phe	Ser	Pro	Met	Asn	Arg	Thr
	355						360					365			
Pro	Val	Leu	Leu	His	Asp	His	Asp	Glu	Arg	Leu	His	Glu	Ala	Val	Phe
	370					375					380				
Leu	Arg	Gly	Val	Asp	Ile	Tyr	Thr	Arg	Leu	Leu	Pro	Ala	Leu	Ala	Ser
385				390					395						400
Val	Pro	Ala	Leu	Pro	Ser	Asp	Ser								
			405												

<210> 15
 <211> 277
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> F-actin capping protein beta subunit
 <222> (1)..(277)
 <223> Accession NO: as of 06 Dec 2002: P47756
 <400> 15

<213> Homo sapiens
 <220>
 <221> Inorganic pyrophosphatase
 <222> (1)..(289)
 <223> Accession NO: as of 06 Dec 2002: Q15181
 <400> 16

Met	Ser	Gly	Phe	Ser	Thr	Glu	Glu	Arg	Ala	Ala	Pro	Phe	Ser	Leu	Glu
1				5					10					15	
Tyr	Arg	Val	Phe	Leu	Lys	Asn	Glu	Lys	Gly	Gln	Tyr	Ile	Ser	Pro	Phe
			20					25					30		
His	Asp	Ile	Pro	Ile	Tyr	Ala	Asp	Lys	Asp	Val	Phe	His	Met	Val	Val
		35					40					45			
Glu	Val	Pro	Arg	Trp	Ser	Asn	Ala	Lys	Met	Glu	Ile	Ala	Thr	Lys	Asp
	50					55				60					
Pro	Leu	Asn	Pro	Ile	Lys	Gln	Asp	Val	Lys	Lys	Gly	Lys	Leu	Arg	Tyr
65					70				75					80	
Val	Ala	Asn	Leu	Phe	Pro	Tyr	Lys	Gly	Tyr	Ile	Trp	Asn	Tyr	Gly	Ala
			85					90						95	
Ile	Pro	Gln	Thr	Trp	Glu	Asp	Pro	Gly	His	Asn	Asp	Lys	His	Thr	Gly
			100					105					110		
Cys	Cys	Gly	Asp	Asn	Asp	Pro	Ile	Asp	Val	Cys	Glu	Ile	Gly	Ser	Lys
		115					120					125			
Val	Cys	Ala	Arg	Gly	Glu	Ile	Ile	Gly	Val	Lys	Val	Leu	Gly	Ile	Leu
	130						135				140				
Ala	Met	Ile	Asp	Glu	Gly	Glu	Thr	Asp	Trp	Lys	Val	Ile	Ala	Ile	Asn
145					150					155					160
Val	Asp	Asp	Pro	Asp	Ala	Ala	Asn	Tyr	Asn	Asp	Ile	Asn	Asp	Val	Lys
			165					170						175	
Arg	Leu	Lys	Pro	Gly	Tyr	Leu	Glu	Ala	Thr	Val	Asp	Trp	Phe	Arg	Arg
			180					185					190		
Tyr	Lys	Val	Pro	Asp	Gly	Lys	Pro	Glu	Asn	Glu	Phe	Ala	Phe	Asn	Ala
		195					200					205			
Glu	Phe	Lys	Asp	Lys	Asp	Phe	Ala	Ile	Asp	Ile	Ile	Lys	Ser	Thr	His
	210					215					220				
Asp	His	Trp	Lys	Ala	Leu	Val	Thr	Lys	Lys	Thr	Asn	Gly	Lys	Gly	Ile
225					230					235					240
Ser	Cys	Met	Asn	Thr	Thr	Leu	Ser	Glu	Ser	Pro	Phe	Lys	Cys	Asp	Pro
			245						250				255		
Asp	Ala	Ala	Arg	Ala	Ile	Val	Asp	Ala	Leu	Pro	Pro	Pro	Cys	Glu	Ser
			260					265					270		

Ala Cys Thr Val Pro Thr Asp Val Asp Lys Trp Phe His His Gln Lys
 275 280 285
 Asn

<210> 17
 <211> 250
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Galectin-3 (Galactose-specific lectin 3)
 <222> (1)..(250)
 <223> Accession NO: as of 06 Dec 2002: P17931
 <400> 17

Met Ala Asp Asn Phe Ser Leu His Asp Ala Leu Ser Gly Ser Gly Asn
 1 5 10 15
 Pro Asn Pro Gln Gly Trp Pro Gly Ala Trp Gly Asn Gln Pro Ala Gly
 20 25 30
 Ala Gly Gly Tyr Pro Gly Ala Ser Tyr Pro Gly Ala Tyr Pro Gly Gln
 35 40 45
 Ala Pro Pro Gly Ala Tyr Pro Gly Gln Ala Pro Pro Gly Ala Tyr His
 50 55 60
 Gly Ala Pro Gly Ala Tyr Pro Gly Ala Pro Ala Pro Gly Val Tyr Pro
 65 70 75 80
 Gly Pro Pro Ser Gly Pro Gly Ala Tyr Pro Ser Ser Gly Gln Pro Ser
 85 90 95
 Ala Pro Gly Ala Tyr Pro Ala Thr Gly Pro Tyr Gly Ala Pro Ala Gly
 100 105 110
 Pro Leu Ile Val Pro Tyr Asn Leu Pro Leu Pro Gly Gly Val Val Pro
 115 120 125
 Arg Met Leu Ile Thr Ile Leu Gly Thr Val Lys Pro Asn Ala Asn Arg
 130 135 140
 Ile Ala Leu Asp Phe Gln Arg Gly Asn Asp Val Ala Phe His Phe Asn
 145 150 155 160
 Pro Arg Phe Asn Glu Asn Asn Arg Arg Val Ile Val Cys Asn Thr Lys
 165 170 175
 Leu Asp Asn Asn Trp Gly Arg Glu Glu Arg Gln Ser Val Phe Pro Phe
 180 185 190
 Glu Ser Gly Lys Pro Phe Lys Ile Gln Val Leu Val Glu Pro Asp His

195 200 205
 Phe Lys Val Ala Val Asn Asp Ala His Leu Leu Gln Tyr Asn His Arg
 210 215 220
 Val Lys Lys Leu Asn Glu Ile Ser Lys Leu Gly Ile Ser Gly Asp Ile
 225 230 235 240
 Asp Leu Thr Ser Ala Ser Tyr Thr Met Ile
 325 250

<210> 18
 <211> 347
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Voltage-dependent anion-selective channel protein 2 (VDAC-2)
 <222> (1)..(347)
 <223> Accession NO:as of 06 Dec 2002: P45880
 <400> 18

Met Ser Trp Cys Asn Glu Leu Arg Leu Pro Ala Leu Lys Gln His Ser
 1 5 10 15
 Ile Gly Arg Gly Leu Glu Ser His Ile Thr Met Cys Ile Pro Pro Ser
 20 25 30
 Tyr Ala Asp Leu Gly Lys Ala Ala Arg Asp Ile Phe Asn Lys Gly Phe
 35 40 45
 Gly Phe Gly Leu Val Lys Leu Asp Val Lys Thr Lys Ser Cys Ser Gly
 50 55 60
 Val Glu Phe Ser Thr Ser Gly Ser Ser Asn Thr Asp Thr Gly Lys Val
 65 70 75 80
 Thr Gly Thr Leu Glu Thr Lys Tyr Lys Trp Cys Glu Tyr Gly Leu Thr
 85 90 95
 Phe Thr Glu Lys Trp Asn Thr Asp Asn Thr Leu Gly Thr Glu Ile Ala
 100 105 110
 Ile Glu Asp Gln Ile Cys Gln Gly Leu Lys Leu Thr Phe Asp Thr Thr
 115 120 125
 Phe Ser Pro Asn Thr Gly Lys Lys Ser Gly Lys Ile Lys Ser Ser Tyr
 130 135 140
 Lys Arg Glu Cys Ile Asn Leu Gly Cys Asp Val Asp Phe Asp Phe Ala
 145 150 155 160
 Gly Pro Ala Ile His Gly Ser Ala Val Phe Gly Tyr Glu Gly Trp Leu
 165 170 175

Ala Gly Tyr Gln Met Thr Phe Asp Ser Ala Lys Ser Lys Leu Thr Arg
 180 185 190
 Asn Asn Phe Ala Val Gly Tyr Arg Thr Gly Asp Phe Gln Leu His Thr
 195 200 205
 Asn Val Asn Asp Gly Thr Glu Phe Gly Gly Ser Ile Tyr Gln Lys Val
 210 215 220
 Cys Glu Asp Leu Asp Thr Ser Val Asn Leu Ala Trp Thr Ser Gly Thr
 225 230 235 240
 Asn Cys Thr Arg Phe Gly Ile Ala Ala Lys Tyr Gln Leu Asp Pro Thr
 245 250 255
 Ala Ser Ile Ser Ala Lys Val Asn Asn Ser Ser Leu Ile Gly Val Gly
 260 265 270
 Tyr Thr Gln Thr Leu Arg Pro Gly Val Lys Leu Thr Leu Ser Ala Leu
 275 280 285
 Val Asp Gly Lys Ser Ile Asn Ala Gly Gly His Lys Val Gly Ser Pro
 290 295 300
 Trp Ser Trp Arg Leu Asn Pro Ala Glu Arg Asn Leu Trp Glu Trp Ile
 305 310 315 320
 Ser Glu Asp Leu Ala Leu Ile Tyr Phe His Cys Asp Gln Gln Gln Ala
 325 330 335
 Phe Phe Pro Pro Glu Asp Asp Gln Asn Lys Gly
 325 345

<210> 19
 <211> 339
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Annexin II
 <222> (1)..(339)
 <223> Accession NO: as of 06 Dec 2002: P07355
 <400> 19

Met Ser Thr Val His Glu Ile Leu Cys Lys Leu Ser Leu Glu Gly Asp
 1 5 10 15
 His Ser Thr Pro Pro Ser Ala Tyr Gly Ser Val Lys Ala Tyr Thr Asn
 20 25 30
 Phe Asp Ala Glu Arg Asp Ala Leu Asn Ile Glu Thr Ala Ile Lys Thr
 35 40 45
 Lys Gly Val Asp Glu Val Thr Ile Val Asn Ile Leu Thr Asn Arg Ser

50		55		60
Asn Ala Gln Arg Gln Asp Ile Ala Phe Ala Tyr Gln Arg Arg Thr Lys				
65		70		75
Lys Glu Leu Ala Ser Ala Leu Lys Ser Ala Leu Ser Gly His Leu Glu				80
	85		90	95
Thr Val Ile Leu Gly Leu Leu Lys Thr Pro Ala Gln Tyr Asp Ala Ser				
	100		105	110
Glu Leu Lys Ala Ser Met Lys Gly Leu Gly Thr Asp Glu Asp Ser Leu				
	115		120	125
Ile Glu Ile Ile Cys Ser Arg Thr Asn Gln Glu Leu Gln Glu Ile Asn				
	130		135	140
Arg Val Tyr Lys Glu Met Tyr Lys Thr Asp Leu Glu Lys Asp Ile Ile				
145		150		155
Ser Asp Thr Ser Gly Asp Phe Arg Lys Leu Met Val Ala Leu Ala Lys				160
	165		170	175
Gly Arg Arg Ala Glu Asp Gly Ser Val Ile Asp Tyr Glu Leu Ile Asp				
	180		185	190
Gln Asp Ala Arg Asp Leu Tyr Asp Ala Gly Val Lys Arg Lys Gly Thr				
	195		200	205
Asp Val Pro Lys Trp Ile Ser Ile Met Thr Glu Arg Ser Val Pro His				
	210		215	220
Leu Gln Lys Val Phe Asp Arg Tyr Lys Ser Tyr Ser Pro Tyr Asp Met				
225		230		235
Leu Glu Ser Ile Arg Lys Glu Val Lys Gly Asp Leu Glu Asn Ala Phe				240
	245		250	255
Leu Asn Leu Val Gln Cys Ile Gln Asn Lys Pro Leu Tyr Phe Ala Asp				
	260		265	270
Arg Leu Tyr Asp Ser Met Lys Gly Lys Gly Thr Arg Asp Lys Val Leu				
	275		280	285
Ile Arg Ile Met Val Ser Arg Ser Glu Val Asp Met Leu Lys Ile Arg				
	290		295	300
Ser Glu Phe Lys Arg Lys Tyr Gly Lys Ser Leu Tyr Tyr Tyr Ile Gln				
305		310		315
Gln Asp Thr Lys Gly Asp Tyr Gln Lys Ala Leu Leu Tyr Leu Cys Gly				320
	325		330	335
Gly Asp Asp				

<210> 20
 <211> 418

<212> PRT
 <213> Homo sapiens
 <220>
 <221> Collagen-binding protein 2 precursor
 <222> (1)..(418)
 <223> Accession NO: as of 06 Dec 2002: P50454
 <400> 20

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Met Arg Ser Leu Leu Leu Leu Ser Ala Phe Cys Leu Leu Glu Ala Ala
1           5           10           15
Leu Ala Ala Glu Val Lys Lys Pro Ala Ala Ala Ala Pro Gly Thr
           20           25           30
Ala Glu Lys Leu Ser Pro Lys Ala Ala Thr Leu Ala Glu Arg Ser Ala
           35           40           45
Gly Leu Ala Phe Ser Leu Tyr Gln Ala Met Ala Lys Asp Gln Ala Val
           50           55           60
Glu Asn Ile Leu Val Ser Pro Val Val Val Ala Ser Ser Leu Gly Leu
65           70           75           80
Val Ser Leu Gly Gly Lys Ala Thr Thr Ala Ser Gln Ala Lys Ala Val
           85           90           95
Leu Ser Ala Glu Gln Leu Arg Asp Glu Glu Val His Ala Gly Leu Gly
           100          105          110
Glu Leu Leu Arg Ser Leu Ser Asn Ser Thr Ala Arg Asn Val Thr Trp
           115          120          125
Lys Leu Gly Ser Arg Leu Tyr Gly Pro Ser Ser Val Ser Phe Ala Asp
           130          135          140
Asp Phe Val Arg Ser Ser Lys Gln His Tyr Asn Cys Glu His Ser Lys
145          150          155          160
Ile Asn Phe Arg Asp Lys Arg Ser Ala Leu Gln Ser Ile Asn Glu Trp
           165          170          175
Ala Ala Gln Thr Thr Asp Gly Lys Leu Pro Glu Val Thr Lys Asp Val
           180          185          190
Glu Arg Thr Asp Gly Ala Leu Leu Val Asn Ala Met Phe Phe Lys Pro
           195          200          205
His Trp Asp Glu Lys Phe His His Lys Met Val Asp Asn Arg Gly Phe
           210          215          220
Met Val Thr Arg Ser Tyr Thr Val Gly Val Met Met Met His Arg Thr
225          230          235          240
Gly Leu Tyr Asn Tyr Tyr Asp Asp Glu Lys Glu Lys Leu Gln Ile Val
           245          250          255
Glu Met Pro Leu Ala His Lys Leu Ser Ser Leu Ile Ile Leu Met Pro
  
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	260		265		270										
His	His	Val	Glu	Pro	Leu	Glu	Arg	Leu	Glu	Lys	Leu	Leu	Thr	Lys	Glu
	275					280					285				
Gln	Leu	Lys	Ile	Trp	Met	Gly	Lys	Met	Gln	Lys	Lys	Ala	Val	Ala	Ile
	290					295					300				
Ser	Leu	Pro	Lys	Gly	Val	Val	Glu	Val	Thr	His	Asp	Leu	Gln	Lys	His
305					310					315					320
Leu	Ala	Gly	Leu	Gly	Leu	Thr	Glu	Ala	Ile	Asp	Lys	Asn	Lys	Ala	Asp
			325					330				335			
Leu	Ser	Arg	Met	Ser	Gly	Lys	Lys	Asp	Leu	Tyr	Leu	Ala	Ser	Val	Phe
	340						345				350				
His	Ala	Thr	Ala	Phe	Glu	Leu	Asp	Thr	Asp	Gly	Asn	Pro	Phe	Asp	Gln
	355					360					365				
Asp	Ile	Tyr	Gly	Arg	Glu	Glu	Leu	Arg	Ser	Pro	Lys	Leu	Phe	Tyr	Ala
	370				375						380				
Asp	His	Pro	Phe	Ile	Phe	Leu	Val	Arg	Asp	Thr	Gln	Ser	Gly	Ser	Leu
385				390					395						400
Leu	Phe	Ile	Gly	Arg	Leu	Val	Arg	Pro	Lys	Gly	Asp	Lys	Met	Arg	Asp
			405					410					415		
Glu	Leu														

<210> 21
 <211> 166
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Cofilin, non-muscle isoform
 <222> (1)..(166)
 <223> Accession NO: as of 08 ec 2002: P23528
 <400> 21

Met	Ala	Ser	Gly	Val	Ala	Val	Ser	Asp	Gly	Val	Ile	Lys	Val	Phe	Asn
1			5					10					15		
Asp	Met	Lys	Val	Arg	Lys	Ser	Ser	Thr	Pro	Glu	Glu	Val	Lys	Lys	Arg
		20					25					30			
Lys	Lys	Ala	Val	Leu	Phe	Cys	Leu	Ser	Glu	Asp	Lys	Lys	Asn	Ile	Ile
	35					40					45				
Leu	Glu	Glu	Gly	Lys	Glu	Ile	Leu	Val	Gly	Asp	Val	Gly	Gln	Thr	Val
	50					55					60				

Asp Asp Pro Tyr Ala Thr Phe Val Lys Met Leu Pro Asp Lys Asp Cys
 65 70 75 80
 Arg Tyr Ala Leu Tyr Asp Ala Thr Tyr Glu Thr Lys Glu Ser Lys Lys
 85 90 95
 Glu Asp Leu Val Phe Ile Phe Trp Ala Pro Glu Ser Ala Pro Leu Lys
 100 105 110
 Ser Lys Met Ile Tyr Ala Ser Ser Lys Asp Ala Ile Lys Lys Lys Leu
 115 120 125
 Thr Gly Ile Lys His Glu Leu Gln Ala Asn Cys Tyr Glu Glu Val Lys
 130 135 140
 Asp Arg Cys Thr Leu Ala Glu Lys Leu Gly Gly Ser Ala Val Ile Ser
 145 150 155 160
 Leu Glu Gly Lys Pro Leu
 165

<210> 22
 <211> 165
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Peptidyl-prolyl cis-trans isomerase A
 <222> (1)..(165)
 <223> Accession NO: as of 09 Dec 2002: P05092
 <400> 22

Met Val Asn Pro Thr Val Phe Phe Asp Ile Ala Val Asp Gly Glu Pro
 1 5 10 15
 Leu Gly Arg Val Ser Phe Glu Leu Phe Ala Asp Lys Val Pro Lys Thr
 20 25 30
 Ala Glu Asn Phe Arg Ala Leu Ser Thr Gly Glu Lys Gly Phe Gly Tyr
 35 40 45
 Lys Gly Ser Cys Phe His Arg Ile Ile Pro Gly Phe Met Cys Gln Gly
 50 55 60
 Gly Asp Phe Thr Arg His Asn Gly Thr Gly Gly Lys Ser Ile Tyr Gly
 65 70 75 80
 Glu Lys Phe Glu Asp Glu Asn Phe Ile Leu Lys His Thr Gly Pro Gly
 85 90 95
 Ile Leu Ser Met Ala Asn Ala Gly Pro Asn Thr Asn Gly Ser Gln Phe
 100 105 110
 Phe Ile Cys Thr Ala Lys Thr Glu Trp Leu Asp Gly Lys His Val Val

115 120 125
 Phe Gly Lys Val Lys Glu Gly Met Asn Ile Val Glu Ala Met Glu Arg
 130 135 140
 Phe Gly Ser Arg Asn Gly Lys Thr Ser Lys Lys Ile Thr Ile Ala Asp
 145 150 155 160
 Cys Gly Gln Leu Glu
 165

<210> 23
 <211> 638
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Dynein intermediate chain 2, cytosolic
 <222> (1)..(638)
 <223> Accession NO: as of 09 Dec 2002: Q13409
 <400> 23

Met Ser Asp Lys Ser Glu Leu Lys Ala Glu Leu Glu Arg Lys Lys Gln
 1 5 10 15
 Arg Leu Ala Gln Ile Arg Glu Glu Lys Lys Arg Lys Glu Glu Glu Arg
 20 25 30
 Lys Lys Lys Glu Thr Asp Gln Lys Lys Glu Ala Val Ala Pro Val Gln
 35 40 45
 Glu Glu Ser Asp Leu Glu Lys Lys Arg Arg Glu Ala Glu Ala Leu Leu
 50 55 60
 Gln Ser Met Gly Leu Thr Pro Glu Ser Pro Ile Val Phe Ser Glu Tyr
 65 70 75 80
 Trp Val Pro Pro Pro Met Ser Pro Ser Ser Lys Ser Val Ser Thr Pro
 85 90 95
 Ser Glu Ala Gly Ser Gln Asp Ser Gly Asp Gly Ala Val Gly Ser Arg
 100 105 110
 Thr Leu His Trp Asp Thr Asp Pro Ser Val Leu Gln Leu His Ser Asp
 115 120 125
 Ser Asp Leu Gly Arg Gly Pro Ile Lys Leu Gly Met Ala Lys Ile Thr
 130 135 140
 Gln Val Asp Phe Pro Pro Arg Glu Ile Val Thr Tyr Thr Lys Glu Thr
 145 150 155 160
 Gln Thr Pro Val Met Ala Gln Pro Lys Glu Asp Glu Glu Glu Asp Asp
 165 170 175

Asp	Val	Val	Ala	Pro	Lys	Pro	Pro	Ile	Glu	Pro	Glu	Glu	Glu	Lys	Thr	180	185	190
Leu	Lys	Lys	Asp	Glu	Glu	Asn	Asp	Ser	Lys	Ala	Pro	Pro	His	Glu	Leu	195	200	205
Thr	Glu	Glu	Glu	Lys	Gln	Gln	Ile	Leu	His	Ser	Glu	Glu	Phe	Leu	Ser	210	215	220
Phe	Phe	Asp	His	Ser	Thr	Arg	Ile	Val	Glu	Arg	Ala	Leu	Ser	Glu	Gln	225	230	235
Ile	Asn	Ile	Phe	Phe	Asp	Tyr	Ser	Gly	Arg	Asp	Leu	Glu	Asp	Lys	Glu	245	250	255
Gly	Glu	Ile	Gln	Ala	Gly	Ala	Lys	Leu	Ser	Leu	Asn	Arg	Gln	Phe	Phe	260	265	270
Asp	Glu	Arg	Trp	Ser	Lys	His	Arg	Val	Val	Ser	Cys	Leu	Asp	Trp	Ser	275	280	285
Ser	Gln	Tyr	Pro	Glu	Leu	Leu	Val	Ala	Ser	Tyr	Asn	Asn	Asn	Glu	Asp	290	295	300
Ala	Pro	His	Glu	Pro	Asp	Gly	Val	Ala	Leu	Val	Trp	Asn	Met	Lys	Tyr	305	310	315
Lys	Lys	Thr	Thr	Pro	Glu	Tyr	Val	Phe	His	Cys	Gln	Ser	Ala	Val	Met	325	330	335
Ser	Ala	Thr	Phe	Ala	Lys	Phe	His	Pro	Asn	Leu	Val	Val	Gly	Gly	Thr	340	345	350
Tyr	Ser	Gly	Gln	Ile	Val	Leu	Trp	Asp	Asn	Arg	Ser	Asn	Lys	Arg	Thr	355	360	365
Pro	Val	Gln	Arg	Thr	Pro	Leu	Ser	Ala	Ala	Ala	His	Thr	His	Pro	Val	370	375	380
Tyr	Cys	Val	Asn	Val	Val	Gly	Thr	Gln	Asn	Ala	His	Asn	Leu	Ile	Ser	385	390	395
Ile	Ser	Thr	Asp	Gly	Lys	Ile	Cys	Ser	Trp	Ser	Leu	Asp	Met	Leu	Ser	405	410	415
His	Pro	Gln	Asp	Ser	Met	Glu	Leu	Val	His	Lys	Gln	Ser	Lys	Ala	Val	420	425	430
Ala	Val	Thr	Ser	Met	Ser	Phe	Pro	Val	Gly	Asp	Val	Asn	Asn	Phe	Val	435	440	445
Val	Gly	Ser	Glu	Glu	Gly	Ser	Val	Tyr	Thr	Ala	Cys	Arg	His	Gly	Ser	450	455	460
Lys	Ala	Gly	Ile	Ser	Glu	Met	Phe	Glu	Gly	His	Gln	Gly	Pro	Ile	Thr	465	470	475
Gly	Ile	His	Cys	His	Ala	Ala	Val	Gly	Ala	Val	Asp	Phe	Ser	His	Leu	485	490	495
Phe	Val	Thr	Ser	Ser	Phe	Asp	Trp	Thr	Val	Lys	Leu	Trp	Thr	Thr	Lys			

	500		505		510										
Asn	Asn	Lys	Pro	Leu	Tyr	Ser	Phe	Glu	Asp	Asn	Ala	Asp	Tyr	Val	Tyr
	515						520					525			
Asp	Val	Met	Trp	Ser	Pro	Thr	His	Pro	Ala	Leu	Phe	Ala	Cys	Val	Asp
	530						535					540			
Gly	Met	Gly	Arg	Leu	Asp	Leu	Trp	Asn	Leu	Asn	Asn	Asp	Thr	Glu	Val
545					550					555					560
Pro	Thr	Ala	Ser	Ile	Ser	Val	Glu	Gly	Asn	Pro	Ala	Leu	Asn	Arg	Val
				565					570					575	
Arg	Trp	Thr	His	Ser	Gly	Arg	Glu	Ile	Ala	Val	Gly	Asp	Ser	Glu	Gly
			580						585				590		
Gln	Ile	Val	Ile	Tyr	Asp	Val	Gly	Glu	Gln	Ile	Ala	Val	Pro	Arg	Asn
	595						600					605			
Asp	Glu	Trp	Ala	Arg	Phe	Gly	Arg	Thr	Leu	Ala	Glu	Ile	Asn	Ala	Asn
	610					615					620				
Arg	Ala	Asp	Ala	Glu	Glu	Glu	Ala	Ala	Thr	Arg	Ile	Pro	Ala		
625					630						635				

<210> 24
 <211> 328
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Delta3,5-delta2,4-dienoyl-CoA isomerase, mitochondrial precursor
 <222> (1)..(328)
 <223> Accession NO: as of 09 Dec 2002: Q13011
 <400> 24

Met	Ala	Ala	Gly	Ile	Val	Ala	Ser	Arg	Arg	Leu	Arg	Asp	Leu	Leu	Thr
1				5						10				15	
Arg	Arg	Leu	Thr	Gly	Ser	Asn	Tyr	Pro	Gly	Leu	Ser	Ile	Ser	Leu	Arg
			20						25				30		
Leu	Thr	Gly	Ser	Ser	Ala	Gln	Glu	Glu	Ala	Ser	Gly	Val	Ala	Leu	Gly
		35					40					45			
Glu	Ala	Pro	Asp	His	Ser	Tyr	Glu	Ser	Leu	Arg	Val	Thr	Ser	Ala	Gln
	50					55					60				
Lys	His	Val	Leu	His	Val	Gln	Leu	Asn	Arg	Pro	Asn	Lys	Arg	Asn	Ala
65					70					75				80	
Met	Asn	Lys	Val	Phe	Trp	Arg	Glu	Met	Val	Glu	Cys	Phe	Asn	Lys	Ile
				85					90					95	

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Ser Arg Asp Ala Asp Cys Arg Ala Val Val Ile Ser Gly Ala Gly Lys
      100                      105                      110
Met Phe Thr Ala Gly Ile Asp Leu Met Asp Met Ala Ser Asp Ile Leu
      115                      120                      125
Gln Pro Lys Gly Asp Asp Val Ala Arg Ile Ser Trp Tyr Leu Arg Asp
      130                      135                      140
Ile Ile Thr Arg Tyr Gln Glu Thr Phe Asn Val Ile Glu Arg Cys Pro
      145                      150                      155                      160
Lys Pro Val Ile Ala Ala Val His Gly Gly Cys Ile Gly Gly Gly Val
      165                      170                      175
Asp Leu Val Thr Ala Cys Asp Ile Arg Tyr Cys Ala Gln Asp Ala Phe
      180                      185                      190
Phe Gln Val Lys Glu Val Asp Val Gly Leu Ala Ala Asp Val Gly Thr
      195                      200                      205
Leu Glu Arg Leu Pro Lys Val Ile Gly Asn Gln Ser Leu Val Asn Glu
      210                      215                      220
Leu Ala Phe Thr Ala His Lys Met Met Ala Asp Glu Ala Leu Asp Ser
      225                      230                      235                      240
Gly Leu Val Ser Arg Val Phe Pro Asp Lys Glu Val Met Leu Asp Ala
      245                      250                      255
Ala Leu Pro Leu Ala Pro Glu Ile Ser Ser Lys Thr Thr Val Leu Val
      260                      265                      270
Gln Ser Thr Lys Val Asn Leu Leu Tyr Ser Arg Asp His Ser Val Ala
      275                      280                      285
Glu Ser Leu Asn Tyr Val Ala Ser Trp Asn Met Ser Met Leu Gln Thr
      290                      295                      300
Gln Asp Leu Val Lys Ser Val Gln Pro Thr Thr Glu Asn Lys Glu Leu
      305                      310                      315                      320
Lys Thr Val Thr Phe Ser Lys Leu
      325

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<210> 25
<211> 1657
<212> PRT
<213> Homo sapiens
<220>
<221> Ras GTPase-activating-like protein IQGAP1
<222> (1)..(1657)
<223> Accession NO: as of 09 Dec 2002: P46940
<400> 25

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Met	Ser	Ala	Ala	Asp	Glu	Val	Asp	Gly	Leu	Gly	Val	Ala	Arg	Pro	His
1				5					10					15	
Tyr	Gly	Ser	Val	Leu	Asp	Asn	Glu	Arg	Leu	Thr	Ala	Glu	Glu	Met	Asp
			20					25					30		
Glu	Arg	Arg	Arg	Gln	Asn	Val	Ala	Tyr	Glu	Tyr	Leu	Cys	His	Leu	Glu
			35				40					45			
Glu	Ala	Lys	Arg	Trp	Met	Glu	Ala	Cys	Leu	Gly	Glu	Asp	Leu	Pro	Pro
			50			55					60				
Thr	Thr	Glu	Leu	Glu	Glu	Gly	Leu	Arg	Asn	Gly	Val	Tyr	Leu	Ala	Lys
65					70					75				80	
Leu	Gly	Asn	Phe	Phe	Ser	Pro	Lys	Val	Val	Ser	Leu	Lys	Lys	Ile	Tyr
			85					90					95		
Asp	Arg	Glu	Gln	Thr	Arg	Tyr	Lys	Ala	Thr	Gly	Leu	His	Phe	Arg	His
			100					105					110		
Thr	Asp	Asn	Val	Ile	Gln	Trp	Leu	Asn	Ala	Met	Asp	Glu	Ile	Gly	Leu
			115				120					125			
Pro	Lys	Ile	Phe	Tyr	Pro	Glu	Thr	Thr	Asp	Ile	Tyr	Asp	Arg	Lys	Asn
			130			135				140					
Met	Pro	Arg	Cys	Ile	Tyr	Cys	Ile	His	Ala	Leu	Ser	Leu	Tyr	Leu	Phe
145					150				155					160	
Lys	Leu	Gly	Leu	Ala	Pro	Gln	Ile	Gln	Asp	Leu	Tyr	Gly	Lys	Val	Asp
			165					170					175		
Phe	Thr	Glu	Glu	Glu	Ile	Asn	Asn	Met	Lys	Thr	Glu	Leu	Glu	Lys	Tyr
			180					185				190			
Gly	Ile	Gln	Met	Pro	Ala	Phe	Ser	Lys	Ile	Gly	Gly	Ile	Leu	Ala	Asn
			195				200					205			
Glu	Leu	Ser	Val	Asp	Glu	Ala	Ala	Leu	His	Ala	Ala	Val	Ile	Ala	Ile
			210			215				220					
Asn	Glu	Ala	Ile	Asp	Arg	Arg	Ile	Pro	Ala	Asp	Thr	Phe	Ala	Ala	Leu
225					230					235				240	
Lys	Asn	Pro	Asn	Ala	Met	Leu	Val	Asn	Leu	Glu	Glu	Pro	Leu	Ala	Ser
			245					250					255		
Thr	Tyr	Gln	Asp	Ile	Leu	Tyr	Gln	Ala	Lys	Gln	Asp	Lys	Met	Thr	Asn
			260					265				270			
Ala	Lys	Asn	Arg	Thr	Glu	Asn	Ser	Glu	Arg	Glu	Arg	Asp	Val	Tyr	Glu
			275				280					285			
Glu	Leu	Leu	Thr	Gln	Ala	Glu	Ile	Gln	Gly	Asn	Ile	Asn	Lys	Val	Asn
			290				295				300				
Thr	Phe	Ser	Ala	Leu	Ala	Asn	Ile	Asp	Leu	Ala	Leu	Glu	Gln	Gly	Asp
305					310					315				320	

Ala Leu Ala Leu Phe Arg Ala Leu Gln Ser Pro Ala Leu Gly Leu Arg
 325 330 335
 Gly Leu Gln Gln Gln Asn Ser Asp Trp Tyr Leu Lys Gln Leu Leu Ser
 340 345 350
 Asp Lys Gln Gln Lys Arg Gln Ser Gly Gln Thr Asp Pro Leu Gln Lys
 355 360 365
 Glu Glu Leu Gln Ser Gly Val Asp Ala Ala Asn Ser Ala Ala Gln Gln
 370 375 380
 Tyr Gln Arg Arg Leu Ala Ala Val Ala Leu Ile Asn Ala Ala Ile Gln
 385 390 395 400
 Lys Gly Val Ala Glu Lys Thr Val Leu Glu Leu Met Asn Pro Glu Ala
 405 410 415
 Gln Leu Pro Gln Val Tyr Pro Phe Ala Ala Asp Leu Tyr Gln Lys Glu
 420 425 430
 Leu Ala Thr Leu Gln Arg Gln Ser Pro Glu His Asn Leu Thr His Pro
 435 440 445
 Glu Leu Ser Val Ala Val Glu Met Leu Ser Ser Val Ala Leu Ile Asn
 450 455 460
 Arg Ala Leu Glu Ser Gly Asp Val Asn Thr Val Trp Lys Gln Leu Ser
 465 470 475 480
 Ser Ser Val Thr Gly Leu Thr Asn Ile Glu Glu Glu Asn Cys Gln Arg
 485 490 495
 Tyr Leu Asp Glu Leu Met Lys Leu Lys Ala Gln Ala His Ala Glu Asn
 500 505 510
 Asn Glu Phe Ile Thr Trp Asn Asp Ile Gln Ala Cys Val Asp His Val
 515 520 525
 Asn Leu Val Val Gln Glu Glu His Glu Arg Ile Leu Ala Ile Gly Leu
 530 535 540
 Ile Asn Glu Ala Leu Asp Glu Gly Asp Ala Gln Lys Thr Leu Gln Ala
 545 550 555 560
 Leu Gln Ile Pro Ala Ala Lys Leu Glu Gly Val Leu Ala Glu Val Ala
 565 570 575
 Gln His Tyr Gln Asp Thr Leu Ile Arg Ala Lys Arg Glu Lys Ala Gln
 580 585 590
 Glu Ile Gln Asp Glu Ser Ala Val Leu Trp Leu Asp Glu Ile Gln Gly
 595 600 605
 Gly Ile Trp Gln Ser Asn Lys Asp Thr Gln Glu Ala Gln Lys Phe Ala
 610 615 620
 Leu Gly Ile Phe Ala Ile Asn Glu Ala Val Glu Ser Gly Asp Val Gly
 625 630 635 640
 Lys Thr Leu Ser Ala Leu Arg Ser Pro Asp Val Gly Leu Tyr Gly Val

Ile	Pro	Glu	Cys	Gly	Glu	Thr	Tyr	His	Ser	Asp	Leu	Ala	Glu	Ala	Lys	645	650	655
																660	665	670
Lys	Lys	Lys	Leu	Ala	Val	Gly	Asp	Asn	Asn	Ser	Lys	Trp	Val	Lys	His			
																675	680	685
Trp	Val	Lys	Gly	Gly	Tyr	Tyr	Tyr	Tyr	His	Asn	Leu	Glu	Thr	Gln	Glu			
																690	695	700
Gly	Gly	Trp	Asp	Glu	Pro	Pro	Asn	Phe	Val	Gln	Asn	Ser	Met	Gln	Leu			
705																710	715	720
Ser	Arg	Glu	Glu	Ile	Gln	Ser	Ser	Ile	Ser	Gly	Val	Thr	Ala	Ala	Tyr			
																725	730	735
Asn	Arg	Glu	Gln	Leu	Trp	Leu	Ala	Asn	Glu	Gly	Leu	Ile	Thr	Arg	Leu			
																740	745	750
Gln	Ala	Arg	Cys	Arg	Gly	Tyr	Leu	Val	Arg	Gln	Glu	Phe	Arg	Ser	Arg			
																755	760	765
Met	Asn	Phe	Leu	Lys	Lys	Gln	Ile	Pro	Ala	Ile	Thr	Cys	Ile	Gln	Ser			
770																775	780	
Gln	Trp	Arg	Gly	Tyr	Lys	Gln	Lys	Lys	Ala	Tyr	Gln	Asp	Arg	Leu	Ala			
785																790	795	800
Tyr	Leu	Arg	Ser	His	Lys	Asp	Glu	Val	Val	Lys	Ile	Gln	Ser	Leu	Ala			
																805	810	815
Arg	Met	His	Gln	Ala	Arg	Lys	Arg	Tyr	Arg	Asp	Arg	Leu	Gln	Tyr	Phe			
																820	825	830
Arg	Asp	His	Ile	Asn	Asp	Ile	Ile	Lys	Ile	Gln	Ala	Phe	Ile	Arg	Ala			
																835	840	845
Asn	Lys	Ala	Arg	Asp	Asp	Tyr	Lys	Thr	Leu	Ile	Asn	Ala	Glu	Asp	Pro			
850																855	860	
Pro	Met	Val	Val	Val	Arg	Lys	Phe	Val	His	Leu	Leu	Asp	Gln	Ser	Asp			
865																870	875	880
Gln	Asp	Phe	Gln	Glu	Glu	Leu	Asp	Leu	Met	Lys	Met	Arg	Glu	Glu	Val			
																885	890	895
Ile	Thr	Leu	Ile	Arg	Ser	Asn	Gln	Gln	Leu	Glu	Asn	Asp	Leu	Asn	Leu			
																900	905	910
Met	Asp	Ile	Lys	Ile	Gly	Leu	Leu	Val	Lys	Asn	Lys	Ile	Thr	Leu	Gln			
																915	920	925
Asp	Val	Val	Ser	His	Ser	Lys	Lys	Leu	Thr	Lys	Lys	Asn	Lys	Glu	Gln			
																930	935	940
Leu	Ser	Asp	Met	Met	Met	Ile	Asn	Lys	Gln	Lys	Gly	Gly	Leu	Lys	Ala			
945																950	955	960
Leu	Ser	Lys	Glu	Lys	Arg	Glu	Lys	Leu	Glu	Ala	Tyr	Gln	His	Leu	Phe			
																965	970	975

Tyr	Leu	Leu	Gln	Thr	Asn	Pro	Thr	Tyr	Leu	Ala	Lys	Leu	Ile	Phe	Gln
			980					985					990		
Met	Pro	Gln	Asn	Lys	Ser	Thr	Lys	Phe	Met	Asp	Ser	Val	Ile	Phe	Thr
			995					1000					1005		
Leu	Tyr	Asn	Tyr	Ala	Ser	Asn	Gln	Arg	Glu	Glu	Tyr	Leu	Leu	Leu	
	1010						1015					1020			
Arg	Leu	Phe	Lys	Thr	Ala	Leu	Gln	Glu	Glu	Ile	Lys	Ser	Lys	Val	
	1025						1030					1035			
Asp	Gln	Ile	Gln	Glu	Ile	Val	Thr	Gly	Asn	Pro	Thr	Val	Ile	Lys	
	1040						1045					1050			
Met	Val	Val	Ser	Phe	Asn	Arg	Gly	Ala	Arg	Gly	Gln	Asn	Ala	Leu	
	1055						1060					1065			
Arg	Gln	Ile	Leu	Ala	Pro	Val	Val	Lys	Glu	Ile	Met	Asp	Asp	Lys	
	1070						1075					1080			
Ser	Leu	Asn	Ile	Lys	Thr	Asp	Pro	Val	Asp	Ile	Tyr	Lys	Ser	Trp	
	1085						1090					1095			
Val	Asn	Gln	Met	Glu	Ser	Gln	Thr	Gly	Glu	Ala	Ser	Lys	Leu	Pro	
	1100						1105					1110			
Tyr	Asp	Val	Thr	Pro	Glu	Gln	Ala	Leu	Ala	His	Glu	Glu	Val	Lys	
	1115						1120					1125			
Thr	Arg	Leu	Asp	Ser	Ser	Ile	Arg	Asn	Met	Arg	Ala	Val	Thr	Asp	
	1130						1135					1140			
Lys	Phe	Leu	Ser	Ala	Ile	Val	Ser	Ser	Val	Asp	Lys	Ile	Pro	Tyr	
	1145						1150					1155			
Gly	Met	Arg	Phe	Ile	Ala	Lys	Val	Leu	Lys	Asp	Ser	Leu	His	Glu	
	1160						1165					1170			
Lys	Phe	Pro	Asp	Ala	Gly	Glu	Asp	Glu	Leu	Leu	Lys	Ile	Ile	Gly	
	1175						1180					1185			
Asn	Leu	Leu	Tyr	Tyr	Arg	Tyr	Met	Asn	Pro	Ala	Ile	Val	Ala	Pro	
	1190						1195					1200			
Asp	Ala	Phe	Asp	Ile	Ile	Asp	Leu	Ser	Ala	Gly	Gly	Gln	Leu	Thr	
	1205						1210					1215			
Thr	Asp	Gln	Arg	Arg	Asn	Leu	Gly	Ser	Ile	Ala	Lys	Met	Leu	Gln	
	1220						1225					1230			
His	Ala	Ala	Ser	Asn	Lys	Met	Phe	Leu	Gly	Asp	Asn	Ala	His	Leu	
	1235						1240					1245			
Ser	Ile	Ile	Asn	Glu	Tyr	Leu	Ser	Gln	Ser	Tyr	Gln	Lys	Phe	Arg	
	1250						1255					1260			
Arg	Phe	Phe	Gln	Thr	Ala	Cys	Asp	Val	Pro	Glu	Leu	Gln	Asp	Lys	
	1265						1270					1275			
Phe	Asn	Val	Asp	Glu	Tyr	Ser	Asp	Leu	Val	Thr	Leu	Thr	Lys	Pro	

1280	1285	1290
Val Ile Tyr Ile Ser Ile Gly	Glu Ile Ile Asn Thr	His Thr Leu
1295	1300	1305
Leu Leu Asp His Gln Asp Ala	Ile Ala Pro Glu His	Asn Asp Pro
1310	1315	1320
Ile His Glu Leu Leu Asp Asp	Leu Gly Glu Val Pro	Thr Ile Glu
1325	1330	1335
Ser Leu Ile Gly Glu Ser Ser	Gly Asn Leu Asn Asp	Pro Asn Lys
1340	1345	1350
Glu Ala Leu Ala Lys Thr Glu	Val Ser Leu Thr Leu	Thr Asn Lys
1355	1360	1365
Phe Asp Val Pro Gly Asp Glu	Asn Ala Glu Met Asp	Ala Arg Thr
1370	1375	1380
Ile Leu Leu Asn Thr Lys Arg	Leu Ile Val Asp Val	Ile Arg Phe
1385	1390	1395
Gln Pro Gly Glu Thr Leu Thr	Glu Ile Leu Glu Thr	Pro Ala Thr
1400	1405	1410
Ser Glu Gln Glu Ala Glu His	Gln Arg Ala Met Gln	Arg Arg Ala
1415	1420	1425
Ile Arg Asp Ala Lys Thr Pro	Asp Lys Met Lys Lys	Ser Lys Ser
1430	1435	1440
Val Lys Glu Asp Ser Asn Leu	Thr Leu Gln Glu Lys	Lys Glu Lys
1445	1450	1455
Ile Gln Thr Gly Leu Lys Lys	Leu Thr Glu Leu Gly	Thr Val Asp
1460	1465	1470
Pro Lys Asn Lys Tyr Gln Glu	Leu Ile Asn Asp Ile	Ala Arg Asp
1475	1480	1485
Ile Arg Asn Gln Arg Arg Tyr	Arg Gln Arg Arg Lys	Ala Glu Leu
1490	1495	1500
Val Lys Leu Gln Gln Thr Tyr	Ala Ala Leu Asn Ser	Lys Ala Thr
1505	1510	1515
Phe Tyr Gly Glu Gln Val Asp	Tyr Tyr Lys Ser Tyr	Ile Lys Thr
1520	1525	1530
Cys Leu Asp Asn Leu Ala Ser	Lys Gly Lys Val Ser	Lys Lys Pro
1535	1540	1545
Arg Glu Met Lys Gly Lys Lys	Ser Lys Lys Ile Ser	Leu Lys Tyr
1550	1555	1560
Thr Ala Ala Arg Leu His Glu	Lys Gly Val Leu Leu	Glu Ile Glu
1565	1570	1575
Asp Leu Gln Val Asn Gln Phe	Lys Asn Val Ile Phe	Glu Ile Ser
1580	1585	1590

Pro Thr	Glu Glu Val Gly Asp	Phe Glu Val Lys Ala	Lys Phe Met
1595	1600	1605	
Gly Val	Gln Met Glu Thr Phe	Met Leu His Tyr Gln	Asp Leu Leu
1610	1615	1620	
Gln Leu	Gln Tyr Glu Gly Val	Ala Val Met Lys Leu	Phe Asp Arg
1625	1630	1635	
Ala Lys	Val Asn Val Asn Leu	Leu Ile Phe Leu Leu	Asn Lys Lys
1640	1645	1650	
Phe Tyr	Gly Lys		
1655			

<210> 26
 <211> 627
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> L-plastin (Lymphocyte cytosolic protein 1)
 <222> (1)..(627)
 <223> Accession NO: as of 09 Dec 2002: P13796

<400> 26

Met Ala Arg Gly Ser Val Ser Asp Glu Glu Met Met Glu Leu Arg Glu			
1	5	10	15
Ala Phe Ala Lys Val Asp Thr Asp Gly Asn Gly Tyr Ile Ser Phe Asn			
	20	25	30
Glu Leu Asn Asp Leu Phe Lys Ala Ala Cys Leu Pro Leu Pro Gly Tyr			
	35	40	45
Arg Val Arg Glu Ile Thr Glu Asn Leu Met Ala Thr Gly Asp Leu Asp			
	50	55	60
Gln Asp Gly Arg Ile Ser Phe Asp Glu Phe Ile Lys Ile Phe His Gly			
65	70	75	80
Leu Lys Ser Thr Asp Val Ala Lys Thr Phe Arg Lys Ala Ile Asn Lys			
	85	90	95
Lys Glu Gly Ile Cys Ala Ile Gly Gly Thr Ser Glu Gln Ser Ser Val			
	100	105	110
Gly Thr Gln His Ser Tyr Ser Glu Glu Glu Lys Tyr Ala Phe Val Asn			
	115	120	125
Trp Ile Asn Lys Ala Leu Glu Asn Asp Pro Asp Cys Arg His Val Ile			
130	135	140	

Pro Met Asn Pro Asn Thr Asn Asp Leu Phe Asn Ala Val Gly Asp Gly
 145 150 155 160
 Ile Val Leu Cys Lys Met Ile Asn Leu Ser Val Pro Asp Thr Ile Asp
 165 170 175
 Glu Arg Thr Ile Asn Lys Lys Lys Leu Thr Pro Phe Thr Ile Gln Glu
 180 185 190
 Asn Leu Asn Leu Ala Leu Asn Ser Ala Ser Ala Ile Gly Cys His Val
 195 200 205
 Val Asn Ile Gly Ala Glu Asp Leu Lys Glu Gly Lys Pro Tyr Leu Val
 210 215 220
 Leu Gly Leu Leu Trp Gln Val Ile Lys Ile Gly Leu Phe Ala Asp Ile
 225 230 235 240
 Glu Leu Ser Arg Asn Glu Ala Leu Ile Ala Leu Leu Arg Glu Gly Glu
 245 250 255
 Ser Leu Glu Asp Leu Met Lys Leu Ser Pro Glu Glu Leu Leu Leu Arg
 260 265 270
 Trp Ala Asn Tyr His Leu Glu Asn Ala Gly Cys Asn Lys Ile Gly Asn
 275 280 285
 Phe Ser Thr Asp Ile Lys Asp Ser Lys Ala Tyr Tyr His Leu Leu Glu
 290 295 300
 Gln Val Ala Pro Lys Gly Asp Glu Glu Gly Val Pro Ala Val Val Ile
 305 310 315 320
 Asp Met Ser Gly Leu Arg Glu Lys Asp Asp Ile Gln Arg Ala Glu Cys
 325 330 335
 Met Leu Gln Gln Ala Glu Arg Leu Gly Cys Arg Gln Phe Val Thr Ala
 340 345 350
 Thr Asp Val Val Arg Gly Asn Pro Lys Leu Asn Leu Ala Phe Ile Ala
 355 360 365
 Asn Leu Phe Asn Arg Tyr Pro Ala Leu His Lys Pro Glu Asn Gln Asp
 370 375 380
 Ile Asp Trp Gly Ala Leu Glu Gly Glu Thr Arg Glu Glu Arg Thr Phe
 385 390 395 400
 Arg Asn Trp Met Asn Ser Leu Gly Val Asn Pro Arg Val Asn His Leu
 405 410 415
 Tyr Ser Asp Leu Ser Asp Ala Leu Val Ile Phe Gln Leu Tyr Glu Lys
 420 425 430
 Ile Lys Val Pro Val Asp Trp Asn Arg Val Asn Lys Pro Pro Tyr Pro
 435 440 445
 Lys Leu Gly Gly Asn Met Lys Lys Leu Glu Asn Cys Asn Tyr Ala Val
 450 455 460
 Glu Leu Gly Lys Asn Gln Ala Lys Phe Ser Leu Val Gly Ile Gly Gly

Asp Thr Ala Gly Gln Glu Lys Phe Gly Gly Leu Arg Asp Gly Tyr Tyr
 65 70 75 80
 Ile Gln Ala Gln Cys Ala Ile Ile Met Phe Asp Val Thr Ser Arg Val
 85 90 95
 Thr Tyr Lys Asn Val Pro Asn Trp His Arg Asp Leu Val Arg Val Cys
 100 105 110
 Glu Asn Ile Pro Ile Val Leu Cys Gly Asn Lys Val Asp Ile Lys Asp
 115 120 125
 Arg Lys Val Lys Ala Lys Ser Ile Val Phe His Arg Lys Lys Asn Leu
 130 135 140
 Gln Tyr Tyr Asp Ile Ser Ala Lys Ser Asn Tyr Asn Phe Glu Lys Pro
 145 150 155 160
 Phe Leu Trp Leu Ala Arg Lys Leu Ile Gly Asp Pro Asn Leu Glu Phe
 165 170 175
 Val Ala Met Pro Ala Leu Ala Pro Pro Glu Val Val Met Asp Pro Ala
 180 185 190
 Leu Ala Ala Gln Tyr Glu His Asp Leu Glu Val Ala Gln Thr Thr Ala
 195 200 205
 Leu Pro Asp Glu Asp Asp Asp Leu
 325 215

<210> 28
 <211> 463
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Heterogeneous nuclear ribonucleoprotein K
 <222> (1)..(463)
 <223> Accession NO: as of 09 Dec 2002: Q07244
 <400> 28

Met Glu Thr Glu Gln Pro Glu Glu Thr Phe Pro Asn Thr Glu Thr Asn
 1 5 10 15
 Gly Glu Phe Gly Lys Arg Pro Ala Glu Asp Met Glu Glu Glu Gln Ala
 20 25 30
 Phe Lys Arg Ser Arg Asn Thr Asp Glu Met Val Glu Leu Arg Ile Leu
 35 40 45
 Leu Gln Ser Lys Asn Ala Gly Ala Val Ile Gly Lys Gly Gly Lys Asn
 50 55 60
 Ile Lys Ala Leu Arg Thr Asp Tyr Asn Ala Ser Val Ser Val Pro Asp

65					70					75					80
Ser	Ser	Gly	Pro	Glu	Arg	Ile	Leu	Ser	Ile	Ser	Ala	Asp	Ile	Glu	Thr
				85						90				95	
Ile	Gly	Glu	Ile	Leu	Lys	Lys	Ile	Ile	Pro	Thr	Leu	Glu	Glu	Gly	Leu
			100					105					110		
Gln	Leu	Pro	Ser	Pro	Thr	Ala	Thr	Ser	Gln	Leu	Pro	Leu	Glu	Ser	Asp
		115					120					125			
Ala	Val	Glu	Cys	Leu	Asn	Tyr	Gln	His	Tyr	Lys	Gly	Ser	Asp	Phe	Asp
		130					135				140				
Cys	Glu	Leu	Arg	Leu	Leu	Ile	His	Gln	Ser	Leu	Ala	Gly	Gly	Ile	Ile
145					150					155					160
Gly	Val	Lys	Gly	Ala	Lys	Ile	Lys	Glu	Leu	Arg	Glu	Asn	Thr	Gln	Thr
			165					170					175		
Thr	Ile	Lys	Leu	Phe	Gln	Glu	Cys	Cys	Pro	His	Ser	Thr	Asp	Arg	Val
		180						185					190		
Val	Leu	Ile	Gly	Gly	Lys	Pro	Asp	Arg	Val	Val	Glu	Cys	Ile	Lys	Ile
		195					200					205			
Ile	Leu	Asp	Leu	Ile	Ser	Glu	Ser	Pro	Ile	Lys	Gly	Arg	Ala	Gln	Pro
		210				215					220				
Tyr	Asp	Pro	Asn	Phe	Tyr	Asp	Glu	Thr	Tyr	Asp	Tyr	Gly	Gly	Phe	Thr
225				230					235					240	
Met	Met	Phe	Asp	Asp	Arg	Arg	Gly	Arg	Pro	Val	Gly	Phe	Pro	Met	Arg
			245						250					255	
Gly	Arg	Gly	Gly	Phe	Asp	Arg	Met	Pro	Pro	Gly	Arg	Gly	Gly	Arg	Pro
		260					265					270			
Met	Pro	Pro	Ser	Arg	Arg	Asp	Tyr	Asp	Asp	Met	Ser	Pro	Arg	Arg	Gly
		275					280					285			
Pro	Pro	Pro	Pro	Pro	Pro	Gly	Arg	Gly	Gly	Arg	Gly	Gly	Ser	Arg	Ala
		290				295					300				
Arg	Asn	Leu	Pro	Leu	Pro	Pro	Pro	Pro	Pro	Pro	Arg	Gly	Gly	Asp	Leu
305				310						315				320	
Met	Ala	Tyr	Asp	Arg	Arg	Gly	Arg	Pro	Gly	Asp	Arg	Tyr	Asp	Gly	Met
			325					330				335			
Val	Gly	Phe	Ser	Ala	Asp	Glu	Thr	Trp	Asp	Ser	Ala	Ile	Asp	Thr	Trp
		340						345				350			
Ser	Pro	Ser	Glu	Trp	Gln	Met	Ala	Tyr	Glu	Pro	Gln	Gly	Gly	Ser	Gly
		355					360					365			
Tyr	Asp	Tyr	Ser	Tyr	Ala	Gly	Gly	Arg	Gly	Ser	Tyr	Gly	Asp	Leu	Gly
	370					375					380				
Gly	Pro	Ile	Ile	Thr	Thr	Gln	Val	Thr	Ile	Pro	Lys	Asp	Leu	Ala	Gly
385				390					395				400		

Ser Ile Ile Gly Lys Gly Gly Gln Arg Ile Lys Gln Ile Arg His Glu
405 410 415
Ser Gly Ala Ser Ile Lys Ile Asp Glu Pro Leu Glu Gly Ser Glu Asp
420 425 430
Arg Ile Ile Thr Ile Thr Gly Thr Gln Asp Gln Ile Gln Asn Ala Gln
435 440 445
Tyr Leu Leu Gln Asn Ser Val Lys Gln Tyr Ser Gly Lys Phe Phe
450 455 460

<210> 29
<211> 172
<212> PRT
<213> Homo sapiens
<220>
<221> Translationally controlled tumor protein (TCTP)
<222> (1)..(172)
<223> Accession NO: as of 09 Dec 2002: P13693
<400> 29

Met Ile Ile Tyr Arg Asp Leu Ile Ser His Asp Glu Met Phe Ser Asp
1 5 10 15
Ile Tyr Lys Ile Arg Glu Ile Ala Asp Gly Leu Cys Leu Glu Val Glu
20 25 30
Gly Lys Met Val Ser Arg Thr Glu Gly Asn Ile Asp Asp Ser Leu Ile
35 40 45
Gly Gly Asn Ala Ser Ala Glu Gly Pro Glu Gly Glu Gly Thr Glu Ser
50 55 60
Thr Val Ile Thr Gly Val Asp Ile Val Met Asn His His Leu Gln Glu
65 70 75 80
Thr Ser Phe Thr Lys Glu Ala Tyr Lys Lys Tyr Ile Lys Asp Tyr Met
85 90 95
Lys Ser Ile Lys Gly Lys Leu Glu Glu Gln Arg Pro Glu Arg Val Lys
100 105 110
Pro Phe Met Thr Gly Ala Ala Glu Gln Ile Lys His Ile Leu Ala Asn
115 120 125
Phe Lys Asn Tyr Gln Phe Phe Ile Gly Glu Asn Met Asn Pro Asp Gly
130 135 140
Met Val Ala Leu Leu Asp Tyr Arg Glu Asp Gly Val Thr Pro Tyr Met
145 150 155 160
Ile Phe Phe Lys Asp Gly Leu Glu Met Glu Lys Cys

<210> 30
 <211> 284
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Tropomyosin 1 alpha chain
 <222> (1)..(284)
 <223> Accession NO: as of 06 Dec 2002: P09493
 <400> 30

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Met Asp Ala Ile Lys Lys Lys Met Gln Met Leu Lys Leu Asp Lys Glu
1              5              10              15
Asn Ala Leu Asp Arg Ala Glu Gln Ala Glu Ala Asp Lys Lys Ala Ala
              20              25              30
Glu Asp Arg Ser Lys Gln Leu Glu Asp Glu Leu Val Ser Leu Gln Lys
              35              40              45
Lys Leu Lys Gly Thr Glu Asp Glu Leu Asp Lys Tyr Ser Glu Ala Leu
              50              55              60
Lys Asp Ala Gln Glu Lys Leu Glu Leu Ala Glu Lys Lys Ala Thr Asp
65              70              75              80
Ala Glu Ala Asp Val Ala Ser Leu Asn Arg Arg Ile Gln Leu Val Glu
              85              90              95
Glu Glu Leu Asp Arg Ala Gln Glu Arg Leu Ala Thr Ala Leu Gln Lys
              100             105             110
Leu Glu Glu Ala Glu Lys Ala Ala Asp Glu Ser Glu Arg Gly Met Lys
              115             120             125
Val Ile Glu Ser Arg Ala Gln Lys Asp Glu Glu Lys Met Glu Ile Gln
              130             135             140
Glu Ile Gln Leu Lys Glu Ala Lys His Ile Ala Glu Asp Ala Asp Arg
145             150             155             160
Lys Tyr Glu Glu Val Ala Arg Lys Leu Val Ile Ile Glu Ser Asp Leu
              165             170             175
Glu Arg Ala Glu Glu Arg Ala Glu Leu Ser Glu Gly Lys Cys Ala Glu
              180             185             190
Leu Glu Glu Glu Leu Lys Thr Val Thr Asn Asn Leu Lys Ser Leu Glu
              195             200             205
Ala Gln Ala Glu Lys Tyr Ser Gln Lys Glu Asp Arg Tyr Glu Glu Glu
              210             215             220

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Ile Lys Val Leu Ser Asp Lys Leu Lys Glu Ala Glu Thr Arg Ala Glu
 225 230 235 240
 Phe Ala Glu Arg Ser Val Thr Lys Leu Glu Lys Ser Ile Asp Asp Leu
 245 250 255
 Glu Asp Glu Leu Tyr Ala Gln Lys Leu Lys Tyr Lys Ala Ile Ser Glu
 260 265 270
 Glu Leu Asp His Ala Leu Asn Asp Met Thr Ser Ile
 325 280

<210> 31
 <211> 482
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Thymidine phosphorylase precursor
 <222> (1)..(482)
 <223> Accession NO: as of 09 Dec 2002: P19971
 <400> 31

Met Ala Ala Leu Met Thr Pro Gly Thr Gly Ala Pro Pro Ala Pro Gly
 1 5 10 15
 Asp Phe Ser Gly Glu Gly Ser Gln Gly Leu Pro Asp Pro Ser Pro Glu
 20 25 30
 Pro Lys Gln Leu Pro Glu Leu Ile Arg Met Lys Arg Asp Gly Gly Arg
 35 40 45
 Leu Ser Glu Ala Asp Ile Arg Gly Phe Val Ala Ala Val Val Asn Gly
 50 55 60
 Ser Ala Gln Gly Ala Gln Ile Gly Ala Met Leu Met Ala Ile Arg Leu
 65 70 75 80
 Arg Gly Met Asp Leu Glu Glu Thr Ser Val Leu Thr Gln Ala Leu Ala
 85 90 95
 Gln Ser Gly Gln Gln Leu Glu Trp Pro Glu Ala Trp Arg Gln Gln Leu
 100 105 110
 Val Asp Lys His Ser Thr Gly Gly Val Gly Asp Lys Val Ser Leu Val
 115 120 125
 Leu Ala Pro Ala Leu Ala Ala Cys Gly Cys Lys Val Pro Met Ile Ser
 130 135 140
 Gly Arg Gly Leu Gly His Thr Gly Gly Thr Leu Asp Lys Leu Glu Ser
 145 150 155 160
 Ile Pro Gly Phe Asn Val Ile Gln Ser Pro Glu Gln Met Gln Val Leu

<210> 32
 <211> 488
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Cytosol aminopeptidase
 <222> (1)..(488)
 <223> Accession NO: as of 09 Dec 2002: P28838
 <400> 32

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Met Thr Lys Gly Leu Val Leu Gly Ile Tyr Ser Lys Glu Lys Glu Asp
1              5              10              15
Asp Val Pro Gln Phe Thr Ser Ala Gly Glu Asn Phe Asp Lys Leu Leu
              20              25              30
Ala Gly Lys Leu Arg Glu Thr Leu Asn Ile Ser Gly Pro Pro Leu Lys
              35              40              45
Ala Gly Lys Thr Arg Thr Phe Tyr Gly Leu His Gln Asp Phe Pro Ser
              50              55              60
Val Val Leu Val Gly Leu Gly Lys Lys Ala Ala Gly Ile Asp Glu Gln
65              70              75              80
Glu Asn Trp His Glu Gly Lys Glu Asn Ile Arg Ala Ala Val Ala Ala
              85              90              95
Gly Cys Arg Gln Ile Gln Asp Leu Glu Leu Ser Ser Val Glu Val Asp
              100             105             110
Pro Cys Gly Asp Ala Gln Ala Ala Ala Glu Gly Ala Val Leu Gly Leu
              115             120             125
Tyr Glu Tyr Asp Asp Leu Lys Gln Lys Lys Lys Met Ala Val Ser Ala
              130             135             140
Lys Leu Tyr Gly Ser Gly Asp Gln Glu Ala Trp Gln Lys Gly Val Leu
145             150             155             160
Phe Ala Ser Gly Gln Asn Leu Ala Arg Gln Leu Met Glu Thr Pro Ala
              165             170             175
Asn Glu Met Thr Pro Thr Arg Phe Ala Glu Ile Ile Glu Lys Asn Leu
              180             185             190
Lys Ser Ala Ser Ser Lys Thr Glu Val His Ile Arg Pro Lys Ser Trp
              195             200             205
Ile Glu Glu Gln Ala Met Gly Ser Phe Leu Ser Val Ala Lys Gly Ser
              210             215             220
Asp Glu Pro Pro Val Phe Leu Glu Ile His Tyr Lys Gly Ser Pro Asn
  
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225		230		235		240
Ala Asn Glu Pro Pro Leu Val Phe Val Gly Lys Gly Ile Thr Phe Asp						
	245		250		255	
Ser Gly Gly Ile Ser Ile Lys Ala Ser Ala Asn Met Asp Leu Met Arg						
	260		265		270	
Ala Asp Met Gly Gly Ala Ala Thr Ile Cys Ser Ala Ile Val Ser Ala						
	275		280		285	
Ala Lys Leu Asn Leu Pro Ile Asn Ile Ile Gly Leu Ala Pro Leu Cys						
	290		295		300	
Glu Asn Met Pro Ser Gly Lys Ala Asn Lys Pro Gly Asp Val Val Arg						
305		310		315		320
Ala Lys Asn Gly Lys Thr Ile Gln Val Asp Asn Thr Asp Ala Glu Gly						
	325		330		335	
Arg Leu Ile Leu Ala Asp Ala Leu Cys Tyr Ala His Thr Phe Asn Pro						
	340		345		350	
Lys Val Ile Leu Asn Ala Ala Thr Leu Thr Gly Ala Met Asp Val Ala						
	355		360		365	
Leu Gly Ser Gly Ala Thr Gly Val Phe Thr Asn Ser Ser Trp Leu Trp						
	370		375		380	
Asn Lys Leu Phe Glu Ala Ser Ile Glu Thr Gly Asp Arg Val Trp Arg						
385		390		395		400
Met Pro Leu Phe Glu His Tyr Thr Arg Gln Val Val Asp Cys Gln Leu						
	405		410		415	
Ala Asp Val Asn Asn Ile Gly Lys Tyr Arg Ser Ala Gly Ala Cys Thr						
	420		425		430	
Ala Ala Ala Phe Leu Lys Glu Phe Val Thr His Pro Lys Trp Ala His						
	435		440		445	
Leu Asp Ile Ala Gly Val Met Thr Asn Lys Asp Glu Val Pro Tyr Leu						
	450		455		460	
Arg Lys Gly Met Thr Gly Arg Pro Thr Arg Thr Leu Ile Glu Phe Leu						
465		470		475		480
Leu Arg Phe Ser Gln Asp Asn Ala						
	485					

<210> 33
 <211> 400
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Keratin, type I cytoskeletal 19

<222> (1)..(400)

<223> Accession NO: as of 09 Dec 2002 : P08727

<400> 33

```
Met Thr Ser Tyr Ser Tyr Arg Gln Ser Ser Ala Thr Ser Ser Phe Gly
1          5          10          15
Gly Leu Gly Gly Gly Ser Val Arg Phe Gly Pro Gly Val Ala Phe Arg
          20          25          30
Ala Pro Ser Ile His Gly Gly Ser Gly Gly Arg Gly Val Ser Val Ser
          35          40          45
Ser Ala Arg Phe Val Ser Ser Ser Ser Ser Gly Gly Tyr Gly Gly Gly
          50          55          60
Tyr Gly Gly Val Leu Thr Ala Ser Asp Gly Leu Leu Ala Gly Asn Glu
65          70          75          80
Lys Leu Thr Met Gln Asn Leu Asn Asp Arg Leu Ala Ser Tyr Leu Asp
          85          90          95
Lys Val Arg Ala Leu Glu Ala Ala Asn Gly Glu Leu Glu Val Lys Ile
          100          105          110
Arg Asp Trp Tyr Gln Lys Gln Gly Pro Gly Pro Ser Arg Asp Tyr Ser
          115          120          125
His Tyr Tyr Thr Thr Ile Gln Asp Leu Arg Asp Lys Ile Leu Gly Ala
          130          135          140
Thr Ile Glu Asn Ser Arg Ile Val Leu Gln Ile Asp Asn Ala Arg Leu
145          150          155          160
Ala Ala Asp Asp Phe Arg Thr Lys Phe Glu Thr Glu Gln Ala Leu Arg
          165          170          175
Met Ser Val Glu Ala Asp Ile Asn Gly Leu Arg Arg Val Leu Asp Glu
          180          185          190
Leu Thr Leu Ala Arg Thr Asp Leu Glu Met Gln Ile Glu Gly Leu Lys
          195          200          205
Glu Glu Leu Ala Tyr Leu Lys Lys Asn His Glu Glu Glu Ile Ser Thr
          210          215          220
Leu Arg Gly Gln Val Gly Gly Gln Val Ser Val Glu Val Asp Ser Ala
225          230          235          240
Pro Gly Thr Asp Leu Ala Lys Ile Leu Ser Asp Met Arg Ser Gln Tyr
          245          250          255
Glu Val Met Ala Glu Gln Asn Arg Lys Asp Ala Glu Ala Trp Phe Thr
          260          265          270
Ser Arg Thr Glu Glu Leu Asn Arg Glu Val Ala Gly His Thr Glu Gln
          275          280          285
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Leu Gln Met Ser Arg Ser Glu Val Thr Asp Leu Arg Arg Thr Leu Gln
 290 295 300
 Gly Leu Glu Ile Glu Leu Gln Ser Gln Leu Ser Met Lys Ala Ala Leu
 305 310 315 320
 Glu Asp Thr Leu Ala Glu Thr Glu Ala Arg Phe Gly Ala Gln Leu Ala
 325 330 335
 His Ile Gln Ala Leu Ile Ser Gly Ile Glu Ala Gln Leu Ala Asp Val
 340 345 350
 Arg Ala Asp Ser Glu Arg Gln Asn Gln Glu Tyr Gln Arg Leu Met Asp
 355 360 365
 Ile Lys Ser Arg Leu Glu Gln Glu Ile Ala Thr Tyr Arg Ser Leu Leu
 370 375 380
 Glu Gly Gln Glu Asp His Tyr Asn Asn Leu Ser Ala Ser Lys Val Leu
 385 390 395 400

<210> 34
 <211> 325
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Alcohol dehydrogenase [NADP+]
 <222> (1)..(325)
 <223> Accession NO: as of 09 Dec 2002: P14550
 <400> 34

Met Ala Ala Ser Cys Val Leu Leu His Thr Gly Gln Lys Met Pro Leu
 1 5 10 15
 Ile Gly Leu Gly Thr Trp Lys Ser Glu Pro Gly Gln Val Lys Ala Ala
 20 25 30
 Val Lys Tyr Ala Leu Ser Val Gly Tyr Arg His Ile Asp Cys Ala Ala
 35 40 45
 Ile Tyr Gly Asn Glu Pro Glu Ile Gly Glu Ala Leu Lys Glu Asp Val
 50 55 60
 Gly Pro Gly Lys Ala Val Pro Arg Glu Glu Leu Phe Val Thr Ser Lys
 65 70 75 80
 Leu Trp Asn Thr Lys His His Pro Glu Asp Val Glu Pro Ala Leu Arg
 85 90 95
 Lys Thr Leu Ala Asp Leu Gln Leu Glu Tyr Leu Asp Leu Tyr Leu Met
 100 105 110
 His Trp Pro Tyr Ala Phe Glu Arg Gly Asp Asn Pro Phe Pro Lys Asn

115	120	125
Ala Asp Gly Thr Ile Cys Tyr Asp Ser Thr His Tyr Lys Glu Thr Trp		
130	135	140
Lys Ala Leu Glu Ala Leu Val Ala Lys Gly Leu Val Gln Ala Leu Gly		
145	150	155
160		
Leu Ser Asn Phe Asn Ser Arg Gln Ile Asp Asp Ile Leu Ser Val Ala		
165	170	175
Ser Val Arg Pro Ala Val Leu Gln Val Glu Cys His Pro Tyr Leu Ala		
180	185	190
Gln Asn Glu Leu Ile Ala His Cys Gln Ala Arg Gly Leu Glu Val Thr		
195	200	205
Ala Tyr Ser Pro Leu Gly Ser Ser Asp Arg Ala Trp Arg Asp Pro Asp		
210	215	220
Glu Pro Val Leu Leu Glu Glu Pro Val Val Leu Ala Leu Ala Glu Lys		
225	230	235
240		
Tyr Gly Arg Ser Pro Ala Gln Ile Leu Leu Arg Trp Gln Val Gln Arg		
245	250	255
Lys Val Ile Cys Ile Pro Lys Ser Ile Thr Pro Ser Arg Ile Leu Gln		
260	265	270
Asn Ile Lys Val Phe Asp Phe Thr Phe Ser Pro Glu Glu Met Lys Gln		
275	280	285
Leu Asn Ala Leu Asn Lys Asn Trp Arg Tyr Ile Val Pro Met Leu Thr		
290	295	300
Val Asp Gly Lys Arg Val Pro Arg Asp Ala Gly His Pro Leu Tyr Pro		
305	310	315
320		
Phe Asn Asp Pro Tyr		
325		

<210> 35
 <211> 270
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Elastase IIIA precursor
 <222> (1)..(270)
 <223> Accession NO: as of 09 Dec 2002: P09093
 <400> 35

Met Met Leu Arg Leu Leu Ser Ser Leu Leu Leu Val Ala Val Ala Ser
1 5 10 15

Gly	Tyr	Gly	Pro	Pro	Ser	Ser	His	Ser	Ser	Ser	Arg	Val	Val	His	Gly
			20					25					30		
Glu	Asp	Ala	Val	Pro	Tyr	Ser	Trp	Pro	Trp	Gln	Val	Ser	Leu	Gln	Tyr
		35					40				45				
Glu	Lys	Ser	Gly	Ser	Phe	Tyr	His	Thr	Cys	Gly	Gly	Ser	Leu	Ile	Ala
	50					55				60					
Pro	Asp	Trp	Val	Val	Thr	Ala	Gly	His	Cys	Ile	Ser	Arg	Asp	Leu	Thr
65					70				75					80	
Tyr	Gln	Val	Val	Leu	Gly	Glu	Tyr	Asn	Leu	Ala	Val	Lys	Glu	Gly	Pro
			85					90					95		
Glu	Gln	Val	Ile	Pro	Ile	Asn	Ser	Glu	Glu	Leu	Phe	Val	His	Pro	Leu
		100						105				110			
Trp	Asn	Arg	Ser	Cys	Val	Ala	Cys	Gly	Asn	Asp	Ile	Ala	Leu	Ile	Lys
	115						120				125				
Leu	Ser	Arg	Ser	Ala	Gln	Leu	Gly	Asp	Ala	Val	Gln	Leu	Ala	Ser	Leu
	130				135				140						
Pro	Pro	Ala	Gly	Asp	Ile	Leu	Pro	Asn	Lys	Thr	Pro	Cys	Tyr	Ile	Thr
145					150				155					160	
Gly	Trp	Gly	Arg	Leu	Tyr	Thr	Asn	Gly	Pro	Leu	Pro	Asp	Lys	Leu	Gln
			165					170					175		
Gln	Ala	Arg	Leu	Pro	Val	Val	Asp	Tyr	Lys	His	Cys	Ser	Arg	Trp	Asn
		180						185					190		
Trp	Trp	Gly	Ser	Thr	Val	Lys	Lys	Thr	Met	Val	Cys	Ala	Gly	Gly	Tyr
	195					200					205				
Ile	Arg	Ser	Gly	Cys	Asn	Gly	Asp	Ser	Gly	Gly	Pro	Leu	Asn	Cys	Pro
	210					215					220				
Thr	Glu	Asp	Gly	Gly	Trp	Gln	Val	His	Gly	Val	Thr	Ser	Phe	Val	Ser
225					230				235					240	
Gly	Phe	Gly	Cys	Asn	Phe	Ile	Trp	Lys	Pro	Thr	Val	Phe	Thr	Arg	Val
			245					250					255		
Ser	Ala	Phe	Ile	Asp	Trp	Ile	Glu	Glu	Thr	Ile	Ala	Ser	His		
		260						265				270			

<210> 36

<211> 509

<212> PRT

<213> Homo sapiens

<220>

<221> Dihydrolipoamide dehydrogenase, mitochondrial precursor

<222> (1)..(509)

<223> Accession NO: as of 09 Dec 2002: P09622

<400> 36

Met Gln Ser Trp Ser Arg Val Tyr Cys Ser Leu Ala Lys Arg Gly His
1 5 10 15
Phe Asn Arg Ile Ser His Gly Leu Gln Gly Leu Ser Ala Val Pro Leu
20 25 30
Arg Thr Tyr Ala Asp Gln Pro Ile Asp Ala Asp Val Thr Val Ile Gly
35 40 45
Ser Gly Pro Gly Gly Tyr Val Ala Ala Ile Lys Ala Ala Gln Leu Gly
50 55 60
Phe Lys Thr Val Cys Ile Glu Lys Asn Glu Thr Leu Gly Gly Thr Cys
65 70 75 80
Leu Asn Val Gly Cys Ile Pro Ser Lys Ala Leu Leu Asn Asn Ser His
85 90 95
Tyr Tyr His Met Ala His Gly Thr Asp Phe Ala Ser Arg Gly Ile Glu
100 105 110
Met Ser Glu Val Arg Leu Asn Leu Asp Lys Met Met Glu Gln Lys Ser
115 120 125
Thr Ala Val Lys Ala Leu Thr Gly Gly Ile Ala His Leu Phe Lys Gln
130 135 140
Asn Lys Val Val His Val Asn Gly Tyr Gly Lys Ile Thr Gly Lys Asn
145 150 155 160
Gln Val Thr Ala Thr Lys Ala Asp Gly Gly Thr Gln Val Ile Asp Thr
165 170 175
Lys Asn Ile Leu Ile Ala Thr Gly Ser Glu Val Thr Pro Phe Pro Gly
180 185 190
Ile Thr Ile Asp Glu Asp Thr Ile Val Ser Ser Thr Gly Ala Leu Ser
195 200 205
Leu Lys Lys Val Pro Glu Lys Met Val Val Ile Gly Ala Gly Val Ile
210 215 220
Gly Val Glu Leu Gly Ser Val Trp Gln Arg Leu Gly Ala Asp Val Thr
225 230 235 240
Ala Val Glu Phe Leu Gly His Val Gly Gly Val Gly Ile Asp Met Glu
245 250 255
Ile Ser Lys Asn Phe Gln Arg Ile Leu Gln Lys Gln Gly Phe Lys Phe
260 265 270
Lys Leu Asn Thr Lys Val Thr Gly Ala Thr Lys Lys Ser Asp Gly Lys
275 280 285
Ile Asp Val Ser Ile Glu Ala Ala Ser Gly Gly Lys Ala Glu Val Ile
290 295 300

Thr Cys Asp Val Leu Leu Val Cys Ile Gly Arg Arg Pro Phe Thr Lys
 305 310 315 320
 Asn Leu Gly Leu Glu Glu Leu Gly Ile Glu Leu Asp Pro Arg Gly Arg
 325 330 335
 Ile Pro Val Asn Thr Arg Phe Gln Thr Lys Ile Pro Asn Ile Tyr Ala
 340 345 350
 Ile Gly Asp Val Val Ala Gly Pro Met Leu Ala His Lys Ala Glu Asp
 355 360 365
 Glu Gly Ile Ile Cys Val Glu Gly Met Ala Gly Gly Ala Val His Ile
 370 375 380
 Asp Tyr Asn Cys Val Pro Ser Val Ile Tyr Thr His Pro Glu Val Ala
 385 390 395 400
 Trp Val Gly Lys Ser Glu Glu Gln Leu Lys Glu Glu Gly Ile Glu Tyr
 405 410 415
 Lys Val Gly Lys Phe Pro Phe Ala Ala Asn Ser Arg Ala Lys Thr Asn
 420 425 430
 Ala Asp Thr Asp Gly Met Val Lys Ile Leu Gly Gln Lys Ser Thr Asp
 435 440 445
 Arg Val Leu Gly Ala His Ile Leu Gly Pro Gly Ala Gly Glu Met Val
 450 455 460
 Asn Glu Ala Ala Leu Ala Leu Glu Tyr Gly Ala Ser Cys Glu Asp Ile
 465 470 475 480
 Ala Arg Val Cys His Ala His Pro Thr Leu Ser Glu Ala Phe Arg Glu
 485 490 495
 Ala Asn Leu Ala Ala Ser Phe Gly Lys Ser Ile Asn Phe
 325 505

<210> 37
 <211> 290
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Enoyl-CoA hydratase, mitochondrial precursor
 <222> (1)..(290)
 <223> Accession NO: as of 09 Dec 2002: P30084
 <400> 37

Met Ala Ala Leu Arg Val Leu Leu Ser Cys Ala Arg Gly Pro Leu Arg
 1 5 10 15
 Pro Pro Val Arg Cys Pro Ala Trp Arg Pro Phe Ala Ser Gly Ala Asn

	20		25		30
Phe	Glu Tyr Ile Ile Ala Glu Lys Arg Gly Lys Asn Asn Thr Val Gly				
	35		40		45
Leu	Ile Gln Leu Asn Arg Pro Lys Ala Leu Asn Ala Leu Cys Asp Gly				
	50		55		60
Leu	Ile Asp Glu Leu Asn Gln Ala Leu Lys Ile Phe Glu Glu Asp Pro				
65		70		75	80
Ala	Val Gly Ala Ile Val Leu Thr Gly Gly Asp Lys Ala Phe Ala Ala				
	85		90		95
Gly	Ala Asp Ile Lys Glu Met Gln Asn Leu Ser Phe Gln Asp Cys Tyr				
	100		105		110
Ser	Ser Lys Phe Leu Lys His Trp Asp His Leu Thr Gln Val Lys Lys				
	115		120		125
Pro	Val Ile Ala Ala Val Asn Gly Tyr Ala Phe Gly Gly Gly Cys Glu				
	130		135		140
Leu	Ala Met Met Cys Asp Ile Ile Tyr Ala Gly Glu Lys Ala Gln Phe				
145		150		155	160
Ala	Gln Pro Glu Ile Leu Ile Gly Thr Ile Pro Gly Ala Gly Gly Thr				
	165		170		175
Gln	Arg Leu Thr Arg Ala Val Gly Lys Ser Leu Ala Met Glu Met Val				
	180		185		190
Leu	Thr Gly Asp Arg Ile Ser Ala Gln Asp Ala Lys Gln Ala Gly Leu				
	195		200		205
Val	Ser Lys Ile Cys Pro Val Glu Thr Leu Val Glu Glu Ala Ile Gln				
	210		215		220
Cys	Ala Glu Lys Ile Ala Ser Asn Ser Lys Ile Val Val Ala Met Ala				
225		230		235	240
Lys	Glu Ser Val Asn Ala Ala Phe Glu Met Thr Leu Thr Glu Gly Ser				
	245		250		255
Lys	Leu Glu Lys Lys Leu Phe Tyr Ser Thr Phe Ala Thr Asp Asp Arg				
	260		265		270
Lys	Glu Gly Met Thr Ala Phe Val Glu Lys Arg Lys Ala Asn Phe Lys				
	275		280		285
Asp	Gln				
	290				

<210> 38
 <211> 160
 <212> PRT
 <213> Homo sapiens

<220>
 <221> Heat-shock 20 kDa like-protein p20
 <222> (1)..(160)
 <223> Accession NO: as of 09 Dec 2002: O14558
 <400> 38

```

Met Glu Ile Pro Val Pro Val Gln Pro Ser Trp Leu Arg Arg Ala Ser
1           5           10           15
Ala Pro Leu Pro Gly Leu Ser Ala Pro Gly Arg Leu Phe Asp Gln Arg
          20           25           30
Phe Gly Glu Gly Leu Leu Glu Ala Glu Leu Ala Ala Leu Cys Pro Thr
        35           40           45
Thr Leu Ala Pro Tyr Tyr Leu Arg Ala Pro Ser Val Ala Leu Pro Val
        50           55           60
Ala Gln Val Pro Thr Asp Pro Gly His Phe Ser Val Leu Leu Asp Val
65           70           75           80
Lys His Phe Ser Pro Glu Glu Ile Ala Val Lys Val Val Gly Glu His
          85           90           95
Val Glu Val His Ala Arg His Glu Glu Arg Pro Asp Glu His Gly Phe
        100          105          110
Val Ala Arg Glu Phe His Arg Arg Tyr Arg Leu Pro Pro Gly Val Asp
        115          120          125
Pro Ala Ala Val Thr Ser Ala Leu Ser Pro Glu Gly Val Leu Ser Ile
        130          135          140
Gln Ala Ala Pro Ala Ser Ala Gln Ala Pro Pro Pro Ala Ala Ala Lys
145          150          155          160
  
```

<210> 39
 <211> 151
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Myosin light chain alkali, non-muscle isoform
 <222> (1)..(151)
 <223> Accession NO: as of 09 Dec 2002: P16475
 <400> 39

```

Met Cys Asp Phe Thr Glu Asp Gln Thr Ala Glu Phe Lys Glu Ala Phe
1           5           10           15
Gln Leu Phe Asp Arg Thr Gly Asp Gly Lys Ile Leu Tyr Ser Gln Cys
  
```

	20		25		30
Gly Asp Val Met Arg Ala Leu Gly Gln Asn Pro Thr Asn Ala Glu Val					
35		40		45	
Leu Lys Val Leu Gly Asn Pro Lys Ser Asp Glu Met Asn Val Lys Val					
50		55		60	
Leu Asp Phe Glu His Phe Leu Pro Met Leu Gln Thr Val Ala Lys Asn					
65		70		75	80
Lys Asp Gln Gly Thr Tyr Glu Asp Tyr Val Glu Gly Leu Arg Val Phe					
	85		90		95
Asp Lys Glu Gly Asn Gly Thr Val Met Gly Ala Glu Ile Arg His Val					
	100		105		110
Leu Val Thr Leu Gly Glu Lys Met Thr Glu Glu Glu Val Glu Met Leu					
	115		120		125
Val Ala Gly His Glu Asp Ser Asn Gly Cys Ile Asn Tyr Glu Ala Phe					
	130		135		140
Val Arg His Ile Leu Ser Gly					
325	150				

<210> 40
 <211> 592
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Calnexin precursor
 <222> (1)..(592)
 <223> Accession NO: as of 09 Dec 2002: P27824
 <400> 40

Met Glu Gly Lys Trp Leu Leu Cys Met Leu Leu Val Leu Gly Thr Ala			
1	5	10	15
Ile Val Glu Ala His Asp Gly His Asp Asp Asp Val Ile Asp Ile Glu			
	20	25	30
Asp Asp Leu Asp Asp Val Ile Glu Glu Val Glu Asp Ser Lys Pro Asp			
	35	40	45
Thr Thr Ala Pro Pro Ser Ser Pro Lys Val Thr Tyr Lys Ala Pro Val			
	50	55	60
Pro Thr Gly Glu Val Tyr Phe Ala Asp Ser Phe Asp Arg Gly Thr Leu			
65	70	75	80
Ser Gly Trp Ile Leu Ser Lys Ala Lys Lys Asp Asp Thr Asp Asp Glu			
	85	90	95

	420		425		430
Ile	Phe Phe Asp Asn Phe Ile Ile Cys Ala Asp Arg Arg Ile Val Asp				
	435		440		445
Asp	Trp Ala Asn Asp Gly Trp Gly Leu Lys Lys Ala Ala Asp Gly Ala				
	450		455		460
Ala	Glu Pro Gly Val Val Gly Gln Met Ile Glu Ala Ala Glu Glu Arg				
465		470		475	480
Pro	Trp Leu Trp Val Val Tyr Ile Leu Thr Val Ala Leu Pro Val Phe				
	485		490		495
Leu	Val Ile Leu Phe Cys Cys Ser Gly Lys Lys Gln Thr Ser Gly Met				
	500		505		510
Glu	Tyr Lys Lys Thr Asp Ala Pro Gln Pro Asp Val Lys Glu Glu Glu				
	515		520		525
Glu	Glu Lys Glu Glu Glu Lys Asp Lys Gly Asp Glu Glu Glu Glu Gly				
	530		535		540
Glu	Glu Lys Leu Glu Glu Lys Gln Lys Ser Asp Ala Glu Glu Asp Gly				
545		550		555	560
Gly	Thr Val Ser Gln Glu Glu Glu Asp Arg Lys Pro Lys Ala Glu Glu				
	565		570		575
Asp	Glu Ile Leu Asn Arg Ser Pro Arg Asn Arg Lys Pro Arg Arg Glu				
	580		585		590

<210> 41
 <211> 282
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Complement component 1
 <222> (1)..(282)
 <223> Accession NO: as of 09 Dec 2002: Q07021
 <400> 41

Met	Leu	Pro	Leu	Leu	Arg	Cys	Val	Pro	Arg	Val	Leu	Gly	Ser	Ser	Val
1			5					10					15		
Ala	Gly	Leu	Arg	Ala	Ala	Ala	Pro	Ala	Ser	Pro	Phe	Arg	Gln	Leu	Leu
			20					25					30		
Gln	Pro	Ala	Pro	Arg	Leu	Cys	Thr	Arg	Pro	Phe	Gly	Leu	Leu	Ser	Val
			35					40					45		
Arg	Ala	Gly	Ser	Glu	Arg	Arg	Pro	Gly	Leu	Leu	Arg	Pro	Arg	Gly	Pro
			50					55					60		

Cys Ala Cys Gly Cys Gly Cys Gly Ser Leu His Thr Asp Gly Asp Lys
 65 70 75 80
 Ala Phe Val Asp Phe Leu Ser Asp Glu Ile Lys Glu Glu Arg Lys Ile
 85 90 95
 Gln Lys His Lys Thr Leu Pro Lys Met Ser Gly Gly Trp Glu Leu Glu
 100 105 110
 Leu Asn Gly Thr Glu Ala Lys Leu Val Arg Lys Val Ala Gly Glu Lys
 115 120 125
 Ile Thr Val Thr Phe Asn Ile Asn Asn Ser Ile Pro Pro Thr Phe Asp
 130 135 140
 Gly Glu Glu Glu Pro Ser Gln Gly Gln Lys Val Glu Glu Gln Glu Pro
 145 150 155 160
 Glu Leu Thr Ser Thr Pro Asn Phe Val Val Glu Val Ile Lys Asn Asp
 165 170 175
 Asp Gly Lys Lys Ala Leu Val Leu Asp Cys His Tyr Pro Glu Asp Glu
 180 185 190
 Val Gly Gln Glu Asp Glu Ala Glu Ser Asp Ile Phe Ser Ile Arg Glu
 195 200 205
 Val Ser Phe Gln Ser Thr Gly Glu Ser Glu Trp Lys Asp Thr Asn Tyr
 210 215 220
 Thr Leu Asn Thr Asp Ser Leu Asp Trp Ala Leu Tyr Asp His Leu Met
 225 230 235 240
 Asp Phe Leu Ala Asp Arg Gly Val Asp Asn Thr Phe Ala Asp Glu Leu
 245 250 255
 Val Glu Leu Ser Thr Ala Leu Glu His Gln Glu Tyr Ile Thr Phe Leu
 260 265 270
 Glu Asp Leu Lys Ser Phe Val Lys Ser Gln
 325 280

<210> 42
 <211> 727
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> NADH-ubiquinone oxidoreductase 75 kDa subunit, mitochondrial
 precursor
 <222> (1)..(727)
 <223> Accession NO: as of 09 Dec 2002: P28331
 <400> 42

Met	Leu	Arg	Ile	Pro	Val	Arg	Arg	Ala	Leu	Val	Gly	Leu	Ser	Lys	Ser	1	5	10	15
Pro	Lys	Gly	Cys	Val	Arg	Thr	Thr	Ala	Thr	Ala	Ala	Ser	Asn	Leu	Ile	20	25	30	
Glu	Val	Phe	Val	Asp	Gly	Gln	Ser	Val	Met	Val	Glu	Pro	Gly	Thr	Thr	35	40	45	
Val	Leu	Gln	Ala	Cys	Glu	Lys	Val	Gly	Met	Gln	Ile	Pro	Arg	Phe	Cys	50	55	60	
Tyr	His	Glu	Arg	Leu	Ser	Val	Ala	Gly	Asn	Cys	Arg	Met	Cys	Leu	Val	65	70	75	80
Glu	Ile	Glu	Lys	Ala	Pro	Lys	Val	Val	Ala	Ala	Cys	Ala	Met	Pro	Val	85	90	95	
Met	Lys	Gly	Trp	Asn	Ile	Leu	Thr	Asn	Ser	Glu	Lys	Ser	Lys	Lys	Ala	100	105	110	
Arg	Glu	Gly	Val	Met	Glu	Phe	Leu	Leu	Ala	Asn	His	Pro	Leu	Asp	Cys	115	120	125	
Pro	Ile	Cys	Asp	Gln	Gly	Gly	Glu	Cys	Asp	Leu	Gln	Asp	Gln	Ser	Met	130	135	140	
Met	Phe	Gly	Asn	Asp	Arg	Ser	Arg	Phe	Leu	Glu	Gly	Lys	Arg	Ala	Val	145	150	155	160
Glu	Asp	Lys	Asn	Ile	Gly	Pro	Leu	Val	Lys	Thr	Ile	Met	Thr	Arg	Cys	165	170	175	
Ile	Gln	Cys	Thr	Arg	Cys	Ile	Arg	Phe	Ala	Ser	Glu	Ile	Ala	Gly	Val	180	185	190	
Asp	Asp	Leu	Gly	Thr	Thr	Gly	Arg	Gly	Asn	Asp	Met	Gln	Val	Gly	Thr	195	200	205	
Tyr	Ile	Glu	Lys	Met	Phe	Met	Ser	Glu	Leu	Ser	Gly	Asn	Ile	Ile	Asp	210	215	220	
Ile	Cys	Pro	Val	Gly	Ala	Leu	Thr	Ser	Lys	Pro	Tyr	Ala	Phe	Thr	Ala	225	230	235	240
Arg	Pro	Trp	Glu	Thr	Arg	Lys	Thr	Glu	Ser	Ile	Asp	Val	Met	Asp	Ala	245	250	255	
Val	Gly	Ser	Asn	Ile	Val	Val	Ser	Thr	Arg	Thr	Gly	Glu	Val	Met	Arg	260	265	270	
Ile	Leu	Pro	Arg	Met	His	Glu	Asp	Ile	Asn	Glu	Glu	Trp	Ile	Ser	Asp	275	280	285	
Lys	Thr	Arg	Phe	Ala	Tyr	Asp	Gly	Leu	Lys	Arg	Gln	Arg	Leu	Thr	Glu	290	295	300	
Pro	Met	Val	Arg	Asn	Glu	Lys	Gly	Leu	Leu	Thr	Tyr	Thr	Ser	Trp	Glu	305	310	315	320
Asp	Ala	Leu	Ser	Arg	Val	Ala	Gly	Met	Leu	Gln	Ser	Phe	Gln	Gly	Lys				

Asp Asp Ile Glu Gly Ala Asn Tyr Phe Gln Gln Ala Asn Glu Leu Ser
 660 665 670
 Lys Leu Val Asn Gln Gln Leu Leu Ala Asp Pro Leu Val Pro Pro Gln
 675 680 685
 Leu Thr Leu Lys Asp Phe Tyr Met Thr Asp Ser Ile Ser Arg Ala Ser
 690 695 700
 Gln Thr Met Ala Lys Cys Val Lys Ala Val Thr Glu Gly Ala Gln Ala
 705 710 715 720
 Val Glu Glu Pro Ser Ile Cys
 725

<210> 43
 <211> 491
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Pre-B cell enhancing factor precursor
 <222> (1)..(491)
 <223> Accession NO: as of 09 Dec 2002: P43490
 <400> 43

Met Asn Pro Ala Ala Glu Ala Glu Phe Asn Ile Leu Leu Ala Thr Asp
 1 5 10 15
 Ser Tyr Lys Val Thr His Tyr Lys Gln Tyr Pro Pro Asn Thr Ser Lys
 20 25 30
 Val Tyr Ser Tyr Phe Glu Cys Arg Glu Lys Lys Thr Glu Asn Ser Lys
 35 40 45
 Leu Arg Lys Val Lys Tyr Glu Glu Thr Val Phe Tyr Gly Leu Gln Tyr
 50 55 60
 Ile Leu Asn Lys Tyr Leu Lys Gly Lys Val Val Thr Lys Glu Lys Ile
 65 70 75 80
 Gln Glu Ala Lys Asp Val Tyr Lys Glu His Phe Gln Asp Asp Val Phe
 85 90 95
 Asn Glu Lys Gly Trp Asn Tyr Ile Leu Glu Lys Tyr Asp Gly His Leu
 100 105 110
 Pro Ile Glu Ile Lys Ala Val Pro Glu Gly Phe Val Ile Pro Arg Gly
 115 120 125
 Asn Val Leu Phe Thr Val Glu Asn Thr Asp Pro Glu Cys Tyr Trp Leu
 130 135 140
 Thr Asn Trp Ile Glu Thr Ile Leu Val Gln Ser Trp Tyr Pro Ile Thr

Gln Leu Asn Ile Glu Leu Glu Ala Ala His His
 325 490

<210> 44
 <211> 135
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Retinol-binding protein I, cellular
 <222> (1)..(135)
 <223> Accession NO: as of 09 Dec 2002: P09455
 <400> 44

Met	Pro	Val	Asp	Phe	Thr	Gly	Tyr	Trp	Lys	Met	Leu	Val	Asn	Glu	Asn
1				5				10					15		
Phe	Glu	Glu	Tyr	Leu	Arg	Ala	Leu	Asp	Val	Asn	Val	Ala	Leu	Arg	Lys
			20					25					30		
Ile	Ala	Asn	Leu	Leu	Lys	Pro	Asp	Lys	Glu	Ile	Val	Gln	Asp	Gly	Asp
		35					40					45			
His	Met	Ile	Ile	Arg	Thr	Leu	Ser	Thr	Phe	Arg	Asn	Tyr	Ile	Met	Asp
	50					55					60				
Phe	Gln	Val	Gly	Lys	Glu	Phe	Glu	Glu	Asp	Leu	Thr	Gly	Ile	Asp	Asp
65				70					75					80	
Arg	Lys	Cys	Met	Thr	Thr	Val	Ser	Trp	Asp	Gly	Asp	Lys	Leu	Gln	Cys
			85					90					95		
Val	Gln	Lys	Gly	Glu	Lys	Glu	Gly	Arg	Gly	Trp	Thr	Gln	Trp	Ile	Glu
		100					105					110			
Gly	Asp	Glu	Leu	His	Leu	Glu	Met	Arg	Val	Glu	Gly	Val	Val	Cys	Lys
	115					120						125			
Gln	Val	Phe	Lys	Lys	Val	Gln									
	325		135												

<210> 45
 <211> 544
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> T-complex protein 1, gamma subunit
 <222> (1)..(544)

<223> Accession NO: as of 09 Dec 2002: P49368

<400> 45

Met Gly His Arg Pro Val Leu Val Leu Ser Gln Asn Thr Lys Arg Glu
1 5 10 15
Ser Gly Arg Lys Val Gln Ser Gly Asn Ile Asn Ala Ala Lys Thr Ile
 20 25 30
Ala Asp Ile Ile Arg Thr Cys Leu Gly Pro Lys Ser Met Met Lys Met
 35 40 45
Leu Leu Asp Pro Met Gly Gly Ile Val Met Thr Asn Asp Gly Asn Ala
 50 55 60
Ile Leu Arg Glu Ile Gln Val Gln His Pro Ala Ala Lys Ser Met Ile
65 70 75 80
Glu Ile Ser Arg Thr Gln Asp Glu Glu Val Gly Asp Gly Thr Thr Ser
 85 90 95
Val Ile Ile Leu Ala Gly Glu Met Leu Ser Val Ala Glu His Phe Leu
 100 105 110
Glu Gln Gln Met His Pro Thr Val Val Ile Ser Ala Tyr Arg Lys Ala
 115 120 125
Leu Asp Asp Met Ile Ser Thr Leu Lys Lys Ile Ser Ile Pro Val Asp
 130 135 140
Ile Ser Asp Ser Asp Met Met Leu Asn Ile Ile Asn Ser Ser Ile Thr
145 150 155 160
Thr Lys Ala Ile Ser Arg Trp Ser Ser Leu Ala Cys Asn Ile Ala Leu
 165 170 175
Asp Ala Val Lys Met Val Gln Phe Glu Glu Asn Gly Arg Lys Glu Ile
 180 185 190
Asp Ile Lys Lys Tyr Ala Arg Val Glu Lys Ile Pro Gly Gly Ile Ile
 195 200 205
Glu Asp Ser Cys Val Leu Arg Gly Val Met Ile Asn Lys Asp Val Thr
 210 215 220
His Pro Arg Met Arg Arg Tyr Ile Lys Asn Pro Arg Ile Val Leu Leu
225 230 235 240
Asp Ser Ser Leu Glu Tyr Lys Lys Gly Glu Ser Gln Thr Asp Ile Glu
 245 250 255
Ile Thr Arg Glu Glu Asp Phe Thr Arg Ile Leu Gln Met Glu Glu Glu
 260 265 270
Tyr Ile Gln Gln Leu Cys Glu Asp Ile Ile Gln Leu Lys Pro Asp Val
 275 280 285
Val Ile Thr Glu Lys Gly Ile Ser Asp Leu Ala Gln His Tyr Leu Met
 290 295 300

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Arg Ala Asn Ile Thr Ala Ile Arg Arg Val Arg Lys Thr Asp Asn Asn
305                      310                      315                      320
Arg Ile Ala Arg Ala Cys Gly Ala Arg Ile Val Ser Arg Pro Glu Glu
                      325                      330                      335
Leu Arg Glu Asp Asp Val Gly Thr Gly Ala Gly Leu Leu Glu Ile Lys
                      340                      345                      350
Lys Ile Gly Asp Glu Tyr Phe Thr Phe Ile Thr Asp Cys Lys Asp Pro
                      355                      360                      365
Lys Ala Cys Thr Ile Leu Leu Arg Gly Ala Ser Lys Glu Ile Leu Ser
                      370                      375                      380
Glu Val Glu Arg Asn Leu Gln Asp Ala Met Gln Val Cys Arg Asn Val
385                      390                      395                      400
Leu Leu Asp Pro Gln Leu Val Pro Gly Gly Gly Ala Ser Glu Met Ala
                      405                      410                      415
Val Ala His Ala Leu Thr Glu Lys Ser Lys Ala Met Thr Gly Val Glu
                      420                      425                      430
Gln Trp Pro Tyr Arg Ala Val Ala Gln Ala Leu Glu Val Ile Pro Arg
                      435                      440                      445
Thr Leu Ile Gln Asn Cys Gly Ala Ser Thr Ile Arg Leu Leu Thr Ser
                      450                      455                      460
Leu Arg Ala Lys His Thr Gln Glu Asn Cys Glu Thr Trp Gly Val Asn
465                      470                      475                      480
Gly Glu Thr Gly Thr Leu Val Asp Met Lys Glu Leu Gly Ile Trp Glu
                      485                      490                      495
Pro Leu Ala Val Lys Leu Gln Thr Tyr Lys Thr Ala Val Glu Thr Ala
                      500                      505                      510
Val Leu Leu Leu Arg Ile Asp Asp Ile Val Ser Gly His Lys Lys Lys
                      515                      520                      525
Gly Asp Asp Gln Ser Arg Gln Gly Gly Ala Pro Asp Ala Gly Gln Glu
                      530                      535                      540

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<210> 46
<211> 461
<212> PRT
<213> Homo sapiens
<220>
<221> Placental ribonuclease inhibitor
<222> (1)..(461)
<223> Accession NO: as of 09 Dec 2002: P13489
<400> 46

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Met	Ser	Leu	Asp	Ile	Gln	Ser	Leu	Asp	Ile	Gln	Cys	Glu	Glu	Leu	Ser
1				5					10					15	
Asp	Ala	Arg	Trp	Ala	Glu	Leu	Leu	Pro	Leu	Leu	Gln	Gln	Cys	Gln	Val
			20					25					30		
Val	Arg	Leu	Asp	Asp	Cys	Gly	Leu	Thr	Glu	Ala	Arg	Cys	Lys	Asp	Ile
		35					40					45			
Ser	Ser	Ala	Leu	Arg	Val	Asn	Pro	Ala	Leu	Ala	Glu	Leu	Asn	Leu	Arg
		50				55					60				
Ser	Asn	Glu	Leu	Gly	Asp	Val	Gly	Val	His	Cys	Val	Leu	Gln	Gly	Leu
65					70					75					80
Gln	Thr	Pro	Ser	Cys	Lys	Ile	Gln	Lys	Leu	Ser	Leu	Gln	Asn	Cys	Cys
				85				90						95	
Leu	Thr	Gly	Ala	Gly	Cys	Gly	Val	Leu	Ser	Ser	Thr	Leu	Arg	Thr	Leu
			100					105					110		
Pro	Thr	Leu	Gln	Glu	Leu	His	Leu	Ser	Asp	Asn	Leu	Leu	Gly	Asp	Ala
		115					120					125			
Gly	Leu	Gln	Leu	Leu	Cys	Glu	Gly	Leu	Leu	Asp	Pro	Gln	Cys	Arg	Leu
		130				135					140				
Glu	Lys	Leu	Gln	Leu	Glu	Tyr	Cys	Ser	Leu	Ser	Ala	Ala	Ser	Cys	Glu
145					150					155					160
Pro	Leu	Ala	Ser	Val	Leu	Arg	Ala	Lys	Pro	Asp	Phe	Lys	Glu	Leu	Thr
				165					170					175	
Val	Ser	Asn	Asn	Asp	Ile	Asn	Glu	Ala	Gly	Val	Arg	Val	Leu	Cys	Gln
			180					185					190		
Gly	Leu	Lys	Asp	Ser	Pro	Cys	Gln	Leu	Glu	Ala	Leu	Lys	Leu	Glu	Ser
		195					200					205			
Cys	Gly	Val	Thr	Ser	Asp	Asn	Cys	Arg	Asp	Leu	Cys	Gly	Ile	Val	Ala
		210				215					220				
Ser	Lys	Ala	Ser	Leu	Arg	Glu	Leu	Ala	Leu	Gly	Ser	Asn	Lys	Leu	Gly
225					230					235					240
Asp	Val	Gly	Met	Ala	Glu	Leu	Cys	Pro	Gly	Leu	Leu	His	Pro	Ser	Ser
				245					250					255	
Arg	Leu	Arg	Thr	Leu	Trp	Ile	Trp	Glu	Cys	Gly	Ile	Thr	Ala	Lys	Gly
			260					265					270		
Cys	Gly	Asp	Leu	Cys	Arg	Val	Leu	Arg	Ala	Lys	Glu	Ser	Leu	Lys	Glu
		275					280				285				
Leu	Ser	Leu	Ala	Gly	Asn	Glu	Leu	Gly	Asp	Glu	Gly	Ala	Arg	Leu	Leu
		290				295					300				
Cys	Glu	Thr	Leu	Leu	Glu	Pro	Gly	Cys	Gln	Leu	Glu	Ser	Leu	Trp	Val
305					310					315					320

Met Ser Ser Lys Arg Ala Lys Ala Lys Thr Thr Lys Lys Arg Pro Gln
 1 5 10 15
 Arg Ala Thr Ser Asn Val Phe Ala Met Phe Asp Gln Ser Gln Ile Gln
 20 25 30
 Glu Phe Lys Glu Ala Phe Asn Met Ile Asp Gln Asn Arg Asp Gly Phe
 35 40 45
 Ile Asp Lys Glu Asp Leu His Asp Met Leu Ala Ser Leu Gly Lys Asn
 50 55 60
 Pro Thr Asp Glu Tyr Leu Glu Gly Met Met Ser Glu Ala Pro Gly Pro
 65 70 75 80
 Ile Asn Phe Thr Met Phe Leu Thr Met Phe Gly Glu Lys Leu Asn Gly
 85 90 95
 Thr Asp Pro Glu Asp Val Ile Arg Asn Ala Phe Ala Cys Phe Asp Glu
 100 105 110
 Glu Ala Ser Gly Phe Ile His Glu Asp His Leu Arg Glu Leu Leu Thr
 115 120 125
 Thr Met Gly Asp Arg Phe Thr Asp Glu Glu Val Asp Glu Met Tyr Arg
 130 135 140
 Glu Ala Pro Ile Asp Lys Lys Gly Asn Phe Asn Tyr Val Glu Phe Thr
 145 150 155 160
 Arg Ile Leu Lys His Gly Ala Lys Asp Lys Asp Asp
 325 170

<210> 49
 <211> 114
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Calgranulin B
 <222> (1)..(114)
 <223> Accession NO: as of 10 Dec 2002: P06702
 <400> 49

Met Thr Cys Lys Met Ser Gln Leu Glu Arg Asn Ile Glu Thr Ile Ile
 1 5 10 15
 Asn Thr Phe His Gln Tyr Ser Val Lys Leu Gly His Pro Asp Thr Leu
 20 25 30
 Asn Gln Gly Glu Phe Lys Glu Leu Val Arg Lys Asp Leu Gln Asn Phe
 35 40 45
 Leu Lys Lys Glu Asn Lys Asn Glu Lys Val Ile Glu His Ile Met Glu

50	55	60
Asp Leu Asp Thr Asn Ala Asp Lys Gln Leu Ser Phe Glu Glu Phe Ile		
65	70	75
Met Leu Met Ala Arg Leu Thr Trp Ala Ser His Glu Lys Met His Glu		80
	85	90
Gly Asp Glu Gly Pro Gly His His His Lys Pro Gly Leu Gly Glu Gly		95
	100	105
		110
Thr Pro		

<210> 50
 <211> 348
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Macrophage capping protein
 <222> (1)..(348)
 <223> Accession NO: as of 10 Dec 2002: P40121
 <400> 50

Met Tyr Thr Ala Ile Pro Gln Ser Gly Ser Pro Phe Pro Gly Ser Val		
1	5	10
Gln Asp Pro Gly Leu His Val Trp Arg Val Glu Lys Leu Lys Pro Val		15
	20	25
Pro Val Ala Gln Glu Asn Gln Gly Val Phe Phe Ser Gly Asp Ser Tyr		30
	35	40
Leu Val Leu His Asn Gly Pro Glu Glu Val Ser His Leu His Leu Trp		45
	50	55
Ile Gly Gln Gln Ser Ser Arg Asp Glu Gln Gly Ala Cys Ala Val Leu		60
65	70	75
Ala Val His Leu Asn Thr Leu Leu Gly Glu Arg Pro Val Gln His Arg		80
	85	90
Glu Val Gln Gly Asn Glu Ser Asp Leu Phe Met Ser Tyr Phe Pro Arg		95
	100	105
Gly Leu Lys Tyr Gln Glu Gly Gly Val Glu Ser Ala Phe His Lys Thr		110
	115	120
Ser Thr Gly Ala Pro Ala Ala Ile Lys Lys Leu Tyr Gln Val Lys Gly		125
	130	135
Lys Lys Asn Ile Arg Ala Thr Glu Arg Ala Leu Asn Trp Asp Ser Phe		140
145	150	155
		160

Asn Thr Gly Asp Cys Phe Ile Leu Asp Leu Gly Gln Asn Ile Phe Ala
 165 170 175
 Trp Cys Gly Gly Lys Ser Asn Ile Leu Glu Arg Asn Lys Ala Arg Asp
 180 185 190
 Leu Ala Leu Ala Ile Arg Asp Ser Glu Arg Gln Gly Lys Ala Gln Val
 195 200 205
 Glu Ile Val Thr Asp Gly Glu Glu Pro Ala Glu Met Ile Gln Val Leu
 210 215 220
 Gly Pro Lys Pro Ala Leu Lys Glu Gly Asn Pro Glu Glu Asp Leu Thr
 225 230 235 240
 Ala Asp Lys Ala Asn Ala Gln Ala Ala Ala Leu Tyr Lys Val Ser Asp
 245 250 255
 Ala Thr Gly Gln Met Asn Leu Thr Lys Val Ala Asp Ser Ser Pro Phe
 260 265 270
 Ala Leu Glu Leu Leu Ile Ser Asp Asp Cys Phe Val Leu Asp Asn Gly
 275 280 285
 Leu Cys Gly Lys Ile Tyr Ile Trp Lys Gly Arg Lys Ala Asn Glu Lys
 290 295 300
 Glu Arg Gln Ala Ala Leu Gln Val Ala Glu Gly Phe Ile Ser Arg Met
 305 310 315 320
 Gln Tyr Ala Pro Asn Thr Gln Val Glu Ile Leu Pro Gln Gly Arg Glu
 325 330 335
 Ser Pro Ile Phe Lys Gln Phe Phe Lys Asp Trp Lys
 325 345

<210> 51
 <211> 346
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Annexin I
 <222> (1)..(346)
 <223> Accession NO: as of 10 Dec 2002: P04083
 <400> 51

Met Ala Met Val Ser Glu Phe Leu Lys Gln Ala Trp Phe Ile Glu Asn
 1 5 10 15
 Glu Glu Gln Glu Tyr Val Gln Thr Val Lys Ser Ser Lys Gly Gly Pro
 20 25 30
 Gly Ser Ala Val Ser Pro Tyr Pro Thr Phe Asn Pro Ser Ser Asp Val

35	40	45
Ala Ala Leu His Lys	Ala Ile Met Val Lys Gly	Val Asp Glu Ala Thr
50	55	60
Ile Ile Asp Ile Leu Thr Lys Arg Asn Asn Ala Gln Arg Gln Gln Ile		
65	70	75
Lys Ala Ala Tyr Leu Gln Glu Thr Gly Lys Pro Leu Asp Glu Thr Leu		
85	90	95
Lys Lys Ala Leu Thr Gly His Leu Glu Glu Val Val Leu Ala Leu Leu		
100	105	110
Lys Thr Pro Ala Gln Phe Asp Ala Asp Glu Leu Arg Ala Ala Met Lys		
115	120	125
Gly Leu Gly Thr Asp Glu Asp Thr Leu Ile Glu Ile Leu Ala Ser Arg		
130	135	140
Thr Asn Lys Glu Ile Arg Asp Ile Asn Arg Val Tyr Arg Glu Glu Leu		
145	150	155
Lys Arg Asp Leu Ala Lys Asp Ile Thr Ser Asp Thr Ser Gly Asp Phe		
165	170	175
Arg Asn Ala Leu Leu Ser Leu Ala Lys Gly Asp Arg Ser Glu Asp Phe		
180	185	190
Gly Val Asn Glu Asp Leu Ala Asp Ser Asp Ala Arg Ala Leu Tyr Glu		
195	200	205
Ala Gly Glu Arg Arg Lys Gly Thr Asp Val Asn Val Phe Asn Thr Ile		
210	215	220
Leu Thr Thr Arg Ser Tyr Pro Gln Leu Arg Arg Val Phe Gln Lys Tyr		
225	230	235
Thr Lys Tyr Ser Lys His Asp Met Asn Lys Val Leu Asp Leu Glu Leu		
245	250	255
Lys Gly Asp Ile Glu Lys Cys Leu Thr Ala Ile Val Lys Cys Ala Thr		
260	265	270
Ser Lys Pro Ala Phe Phe Ala Glu Lys Leu His Gln Ala Met Lys Gly		
275	280	285
Val Gly Thr Arg His Lys Ala Leu Ile Arg Ile Met Val Ser Arg Ser		
290	295	300
Glu Ile Asp Met Asn Asp Ile Lys Ala Phe Tyr Gln Lys Met Tyr Gly		
305	310	315
Ile Ser Leu Cys Gln Ala Ile Leu Asp Glu Thr Lys Gly Asp Tyr Glu		
325	330	335
Lys Ile Leu Val Ala Leu Cys Gly Gly Asn		
325	345	

<210> 52
 <211> 469
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Keratin, type II cytoskeletal 7
 <222> (1)..(469)
 <223> Accession NO: as of 10 Dec 2002: P08729
 <400> 52

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Met Ser Ile His Phe Ser Ser Pro Val Phe Thr Ser Arg Ser Ala Ala
1           5           10           15
Phe Ser Gly Arg Gly Ala Gln Val Arg Leu Ser Ser Ala Arg Pro Gly
           20           25           30
Gly Leu Gly Ser Ser Ser Leu Tyr Gly Leu Gly Ala Ser Arg Pro Arg
           35           40           45
Val Ala Val Arg Ser Ala Tyr Gly Gly Pro Val Gly Ala Gly Ile Arg
           50           55           60
Glu Val Thr Ile Asn Gln Ser Leu Leu Ala Pro Leu Arg Leu Asp Ala
65           70           75           80
Asp Pro Ser Leu Gln Arg Val Arg Gln Glu Glu Ser Glu Gln Ile Lys
           85           90           95
Thr Leu Asn Asn Lys Phe Ala Ser Phe Ile Asp Lys Val Arg Phe Leu
           100          105          110
Glu Gln Gln Asn Lys Leu Leu Glu Thr Lys Trp Thr Leu Leu Gln Glu
           115          120          125
Gln Lys Ser Ala Lys Ser Ser Arg Leu Pro Asp Ile Phe Glu Ala Gln
           130          135          140
Ile Ala Gly Leu Arg Gly Gln Leu Glu Ala Leu Gln Val Asp Gly Gly
145          150          155          160
Arg Leu Glu Gln Gly Leu Arg Thr Met Gln Asp Val Val Glu Asp Phe
           165          170          175
Lys Asn Lys Tyr Glu Asp Glu Ile Asn Arg Arg Thr Ala Ala Glu Asn
           180          185          190
Glu Phe Val Val Leu Lys Lys Asp Val Asp Ala Ala Tyr Met Ser Lys
           195          200          205
Val Glu Leu Glu Ala Lys Val Asp Ala Leu Asn Asp Glu Ile Asn Phe
           210          215          220
Leu Arg Thr Leu Asn Glu Thr Glu Leu Thr Glu Leu Gln Ser Gln Ile
225          230          235          240
Ser Asp Thr Ser Val Val Leu Ser Met Asp Asn Ser Arg Ser Leu Asp

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245 250 255
 Leu Asp Gly Ile Ile Ala Glu Val Lys Ala Gln Tyr Glu Glu Met Ala
 260 265 270
 Lys Cys Ser Arg Ala Glu Ala Glu Ala Trp Tyr Gln Thr Lys Phe Glu
 275 280 285
 Thr Leu Gln Ala Gln Ala Gly Lys His Gly Asp Asp Leu Arg Asn Thr
 290 295 300
 Arg Asn Glu Ile Ser Glu Met Asn Arg Ala Ile Gln Arg Leu Gln Ala
 305 310 315 320
 Glu Ile Asp Asn Ile Lys Asn Gln Arg Ala Lys Leu Glu Ala Ala Ile
 325 330 335
 Ala Glu Ala Glu Glu Arg Gly Glu Leu Ala Leu Lys Asp Ala Arg Ala
 340 345 350
 Lys Gln Glu Glu Leu Glu Ala Ala Leu Gln Arg Ala Lys Gln Asp Met
 355 360 365
 Ala Arg Gln Leu Arg Glu Tyr Gln Glu Leu Met Ser Val Lys Leu Ala
 370 375 380
 Leu Asp Ile Glu Ile Ala Thr Tyr Arg Lys Leu Leu Glu Gly Glu Glu
 385 390 395 400
 Ser Arg Leu Ala Gly Asp Gly Val Gly Ala Val Asn Ile Ser Val Met
 405 410 415
 Asn Ser Thr Gly Gly Ser Ser Ser Gly Gly Gly Ile Gly Leu Thr Leu
 420 425 430
 Gly Gly Thr Met Gly Ser Asn Ala Leu Ser Phe Ser Ser Ser Ala Gly
 435 440 445
 Pro Gly Leu Leu Lys Ala Tyr Ser Ile Arg Thr Ala Ser Ala Ser Arg
 450 455 460
 Arg Ser Ala Arg Asp
 465

<210> 53
 <211> 836
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Osteoblast specific factor 2 precursor
 <222> (1)..(836)
 <223> Accession NO: as of 10 Dec 2002: Q15063
 <400> 53

Met Ile Pro Phe Leu Pro Met Phe Ser Leu Leu Leu Leu Leu Ile Val
 1 5 10 15
 Asn Pro Ile Asn Ala Asn Asn His Tyr Asp Lys Ile Leu Ala His Ser
 20 25 30
 Arg Ile Arg Gly Arg Asp Gln Gly Pro Asn Val Cys Ala Leu Gln Gln
 35 40 45
 Ile Leu Gly Thr Lys Lys Lys Tyr Phe Ser Thr Cys Lys Asn Trp Tyr
 50 55 60
 Lys Lys Ser Ile Cys Gly Gln Lys Thr Thr Val Leu Tyr Glu Cys Cys
 65 70 75 80
 Pro Gly Tyr Met Arg Met Glu Gly Met Lys Gly Cys Pro Ala Val Leu
 85 90 95
 Pro Ile Asp His Val Tyr Gly Thr Leu Gly Ile Val Gly Ala Thr Thr
 100 105 110
 Thr Gln Arg Tyr Ser Asp Ala Ser Lys Leu Arg Glu Glu Ile Glu Gly
 115 120 125
 Lys Gly Ser Phe Thr Tyr Phe Ala Pro Ser Asn Glu Ala Trp Asp Asn
 130 135 140
 Leu Asp Ser Asp Ile Arg Arg Gly Leu Glu Ser Asn Val Asn Val Glu
 145 150 155 160
 Leu Leu Asn Ala Leu His Ser His Met Ile Asn Lys Arg Met Leu Thr
 165 170 175
 Lys Asp Leu Lys Asn Gly Met Ile Ile Pro Ser Met Tyr Asn Asn Leu
 180 185 190
 Gly Leu Phe Ile Asn His Tyr Pro Asn Gly Val Val Thr Val Asn Cys
 195 200 205
 Ala Arg Ile Ile His Gly Asn Gln Ile Ala Thr Asn Gly Val Val His
 210 215 220
 Val Ile Asp Arg Val Leu Thr Gln Ile Gly Thr Ser Ile Gln Asp Phe
 225 230 235 240
 Ile Glu Ala Glu Asp Asp Leu Ser Ser Phe Arg Ala Ala Ala Ile Thr
 245 250 255
 Ser Asp Ile Leu Glu Ala Leu Gly Arg Asp Gly His Phe Thr Leu Phe
 260 265 270
 Ala Pro Thr Asn Glu Ala Phe Glu Lys Leu Pro Arg Gly Val Leu Glu
 275 280 285
 Arg Phe Met Gly Asp Lys Val Ala Ser Glu Ala Leu Met Lys Tyr His
 290 295 300
 Ile Leu Asn Thr Leu Gln Cys Ser Glu Ser Ile Met Gly Gly Ala Val
 305 310 315 320
 Phe Glu Thr Leu Glu Gly Asn Thr Ile Glu Ile Gly Cys Asp Gly Asp

	325		330		335
Ser Ile Thr Val Asn Gly Ile Lys Met Val Asn Lys Lys Asp Ile Val					
	340		345		350
Thr Asn Asn Gly Val Ile His Leu Ile Asp Gln Val Leu Ile Pro Asp					
	355		360		365
Ser Ala Lys Gln Val Ile Glu Leu Ala Gly Lys Gln Gln Thr Thr Phe					
	370		375		380
Thr Asp Leu Val Ala Gln Leu Gly Leu Ala Ser Ala Leu Arg Pro Asp					
385		390		395	400
Gly Glu Tyr Thr Leu Leu Ala Pro Val Asn Asn Ala Phe Ser Asp Asp					
	405		410		415
Thr Leu Ser Met Val Gln Arg Leu Leu Lys Leu Ile Leu Gln Asn His					
	420		425		430
Ile Leu Lys Val Lys Val Gly Leu Asn Glu Leu Tyr Asn Gly Gln Ile					
	435		440		445
Leu Glu Thr Ile Gly Gly Lys Gln Leu Arg Val Phe Val Tyr Arg Thr					
	450		455		460
Ala Val Cys Ile Glu Asn Ser Cys Met Glu Lys Gly Ser Lys Gln Gly					
465		470		475	480
Arg Asn Gly Ala Ile His Ile Phe Arg Glu Ile Ile Lys Pro Ala Glu					
	485		490		495
Lys Ser Leu His Glu Lys Leu Lys Gln Asp Lys Arg Phe Ser Thr Phe					
	500		505		510
Leu Ser Leu Leu Glu Ala Ala Asp Leu Lys Glu Leu Leu Thr Gln Pro					
	515		520		525
Gly Asp Trp Thr Leu Phe Val Pro Thr Asn Asp Ala Phe Lys Gly Met					
	530		535		540
Thr Ser Glu Glu Lys Glu Ile Leu Ile Arg Asp Lys Asn Ala Leu Gln					
545		550		555	560
Asn Ile Ile Leu Tyr His Leu Thr Pro Gly Val Phe Ile Gly Lys Gly					
	565		570		575
Phe Glu Pro Gly Val Thr Asn Ile Leu Lys Thr Thr Gln Gly Ser Lys					
	580		585		590
Ile Phe Leu Lys Glu Val Asn Asp Thr Leu Leu Val Asn Glu Leu Lys					
	595		600		605
Ser Lys Glu Ser Asp Ile Met Thr Thr Asn Gly Val Ile His Val Val					
	610		615		620
Asp Lys Leu Leu Tyr Pro Ala Asp Thr Pro Val Gly Asn Asp Gln Leu					
625		630		635	640
Leu Glu Ile Leu Asn Lys Leu Ile Lys Tyr Ile Gln Ile Lys Phe Val					
	645		650		655

Arg Gly Ser Thr Phe Lys Glu Ile Pro Val Thr Val Tyr Thr Thr Lys
 660 665 670
 Ile Ile Thr Lys Val Val Glu Pro Lys Ile Lys Val Ile Glu Gly Ser
 675 680 685
 Leu Gln Pro Ile Ile Lys Thr Glu Gly Pro Thr Leu Thr Lys Val Lys
 690 695 700
 Ile Glu Gly Glu Pro Glu Phe Arg Leu Ile Lys Glu Gly Glu Thr Ile
 705 710 715 720
 Thr Glu Val Ile His Gly Glu Pro Ile Ile Lys Lys Tyr Thr Lys Ile
 725 730 735
 Ile Asp Gly Val Pro Val Glu Ile Thr Glu Lys Glu Thr Arg Glu Glu
 740 745 750
 Arg Ile Ile Thr Gly Pro Glu Ile Lys Tyr Thr Arg Ile Ser Thr Gly
 755 760 765
 Gly Gly Glu Thr Glu Glu Thr Leu Lys Lys Leu Leu Gln Glu Glu Val
 770 775 780
 Thr Lys Val Thr Lys Phe Ile Glu Gly Gly Asp Gly His Leu Phe Glu
 785 790 795 800
 Asp Glu Glu Ile Lys Arg Leu Leu Gln Gly Asp Thr Pro Val Arg Lys
 805 810 815
 Leu Gln Ala Asn Lys Lys Val Gln Gly Ser Arg Arg Arg Leu Arg Glu
 820 825 830
 Gly Arg Ser Gln
 835

<210> 54
 <211> 687
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Protein-glutamine gamma-glutamyltransferase
 <222> (1)..(687)
 <223> Accession NO: P21980
 <400> 54

Met Ala Glu Glu Leu Val Leu Glu Arg Cys Asp Leu Glu Leu Glu Thr
 1 5 10 15
 Asn Gly Arg Asp His His Thr Ala Asp Leu Cys Arg Glu Lys Leu Val
 20 25 30
 Val Arg Arg Gly Gln Pro Phe Trp Leu Thr Leu His Phe Glu Gly Arg

35	40	45
Asn Tyr Glu Ala Ser Val	Asp Ser Leu Thr Phe	Ser Val Val Thr Gly
50	55	60
Pro Ala Pro Ser Gln Glu Ala	Gly Thr Lys Ala Arg Phe	Pro Leu Arg
65	70	75
Asp Ala Val Glu Glu Gly Asp	Trp Thr Ala Thr Val Val	Asp Gln Gln
85	90	95
Asp Cys Thr Leu Ser Leu Gln	Leu Thr Thr Pro Ala Asn	Ala Pro Ile
100	105	110
Gly Leu Tyr Arg Leu Ser Leu	Glu Ala Ser Thr Gly Tyr	Gln Gly Ser
115	120	125
Ser Phe Val Leu Gly His Phe	Ile Leu Leu Phe Asn Ala	Trp Cys Pro
130	135	140
Ala Asp Ala Val Tyr Leu Asp	Ser Glu Glu Glu Arg Gln	Glu Tyr Val
145	150	155
Leu Thr Gln Gln Gly Phe Ile	Tyr Gln Gly Ser Ala Lys	Phe Ile Lys
165	170	175
Asn Ile Pro Trp Asn Phe Gly	Gln Phe Glu Asp Gly Ile	Leu Asp Ile
180	185	190
Cys Leu Ile Leu Leu Asp Val	Asn Pro Lys Phe Leu Lys	Asn Ala Gly
195	200	205
Arg Asp Cys Ser Arg Arg Ser	Ser Pro Val Tyr Val Gly	Arg Val Val
210	215	220
Ser Gly Met Val Asn Cys Asn	Asp Asp Gln Gly Val Leu	Leu Gly Arg
225	230	235
Trp Asp Asn Asn Tyr Gly Asp	Gly Val Ser Pro Met Ser	Trp Ile Gly
245	250	255
Ser Val Asp Ile Leu Arg Arg	Trp Lys Asn His Gly Cys	Gln Arg Val
260	265	270
Lys Tyr Gly Gln Cys Trp Val	Phe Ala Ala Val Ala Cys	Thr Val Leu
275	280	285
Arg Cys Leu Gly Ile Pro Thr	Arg Val Val Thr Asn Tyr	Asn Ser Ala
290	295	300
His Asp Gln Asn Ser Asn Leu	Leu Ile Glu Tyr Phe Arg	Asn Glu Phe
305	310	315
Gly Glu Ile Gln Gly Asp Lys	Ser Glu Met Ile Trp Asn	Phe His Cys
325	330	335
Trp Val Glu Ser Trp Met Thr	Arg Pro Asp Leu Gln Pro	Gly Tyr Glu
340	345	350
Gly Trp Gln Ala Leu Asp Pro	Thr Pro Gln Glu Lys Ser	Glu Gly Thr
355	360	365

<210> 55
 <211> 204
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Rho GDP-dissociation inhibitor 1
 <222> (1)..(204)
 <223> Accession NO: as of 10 Dec 2002: P52565
 <400> 55

```

Met Ala Glu Gln Glu Pro Thr Ala Glu Gln Leu Ala Gln Ile Ala Ala
1              5              10              15
Glu Asn Glu Glu Asp Glu His Ser Val Asn Tyr Lys Pro Pro Ala Gln
              20              25              30
Lys Ser Ile Gln Glu Ile Gln Glu Leu Asp Lys Asp Asp Glu Ser Leu
              35              40              45
Arg Lys Tyr Lys Glu Ala Leu Leu Gly Arg Val Ala Val Ser Ala Asp
              50              55              60
Pro Asn Val Pro Asn Val Val Val Thr Gly Leu Thr Leu Val Cys Ser
65              70              75              80
Ser Ala Pro Gly Pro Leu Glu Leu Asp Leu Thr Gly Asp Leu Glu Ser
              85              90              95
Phe Lys Lys Gln Ser Phe Val Leu Lys Glu Gly Val Glu Tyr Arg Ile
              100             105             110
Lys Ile Ser Phe Arg Val Asn Arg Glu Ile Val Ser Gly Met Lys Tyr
              115             120             125
Ile Gln His Thr Tyr Arg Lys Gly Val Lys Ile Asp Lys Thr Asp Tyr
              130             135             140
Met Val Gly Ser Tyr Gly Pro Arg Ala Glu Glu Tyr Glu Phe Leu Thr
145             150             155             160
Pro Val Glu Glu Ala Pro Lys Gly Met Leu Ala Arg Gly Ser Tyr Ser
              165             170             175
Ile Lys Ser Arg Phe Thr Asp Asp Asp Lys Thr Asp His Leu Ser Trp
              180             185             190
Glu Trp Asn Leu Thr Ile Lys Lys Asp Trp Lys Asp
              325 200
  
```

<210> 56
 <211> 492

260	265	270
Val Arg Gln Gly Val Asn Val Ser Ala Asn Gln Asp Asp Glu Leu Asp		
275	280	285
His Glu Thr Phe Leu Met Gln Ile Asp Gln Glu Thr Lys Lys Cys Thr		
290	295	300
Phe Tyr Ser Ser Thr Gly Gly Tyr Trp Thr Leu Val Thr His Gly Gly		
305	310	315
Ile His Ala Thr Ala Thr Gln Val Ser Ala Asn Thr Met Phe Glu Met		
325	330	335
Glu Trp Arg Gly Arg Arg Val Ala Leu Lys Ala Ser Asn Gly Arg Tyr		
340	345	350
Val Cys Met Lys Lys Asn Gly Gln Leu Ala Ala Ile Ser Asp Phe Val		
355	360	365
Gly Lys Asp Glu Glu Phe Thr Leu Lys Leu Ile Asn Arg Pro Ile Leu		
370	375	380
Val Leu Arg Gly Leu Asp Gly Phe Val Cys His His Arg Gly Ser Asn		
385	390	395
Gln Leu Asp Thr Asn Arg Ser Val Tyr Asp Val Phe His Leu Ser Phe		
405	410	415
Ser Asp Gly Ala Tyr Arg Ile Arg Gly Arg Asp Gly Gly Phe Trp Tyr		
420	425	430
Thr Gly Ser His Gly Ser Val Cys Ser Asp Gly Glu Arg Ala Glu Asp		
435	440	445
Phe Val Phe Glu Phe Arg Glu Arg Gly Arg Leu Ala Ile Arg Ala Arg		
450	455	460
Ser Gly Lys Tyr Leu Arg Gly Gly Ala Ser Gly Leu Leu Arg Ala Asp		
465	470	475
Ala Asp Ala Pro Ala Gly Thr Ala Leu Trp Glu Tyr		
325	490	

<210> 57
 <211> 165
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Destrin (Actin-depolymerizing factor) (ADF)
 <222> (1)..(165)
 <223> Accession NO: as of 29 August 2003: P18282
 <400> 57

Met Ala Ser Gly Val Gln Val Ala Asp Glu Val Cys Arg Ile Phe Tyr
 1 5 10 15
 Asp Met Lys Val Arg Lys Cys Ser Thr Pro Glu Glu Ile Lys Lys Arg
 20 25 30
 Lys Lys Ala Val Ile Phe Cys Leu Ser Ala Asp Lys Lys Cys Ile Ile
 35 40 45
 Val Glu Glu Gly Lys Glu Ile Leu Val Gly Asp Val Gly Val Thr Ile
 50 55 60
 Thr Asp Pro Phe Lys His Phe Val Gly Met Leu Pro Glu Lys Asp Cys
 65 70 75 80
 Arg Tyr Ala Leu Tyr Asp Ala Ser Phe Glu Thr Lys Glu Ser Arg Lys
 85 90 95
 Glu Glu Leu Met Phe Phe Leu Trp Ala Pro Glu Leu Ala Pro Leu Lys
 100 105 110
 Ser Lys Met Ile Tyr Ala Ser Ser Lys Asp Ala Ile Lys Lys Lys Phe
 115 120 125
 Gln Gly Ile Lys His Glu Cys Gln Ala Asn Gly Pro Glu Asp Leu Asn
 130 135 140
 Arg Ala Cys Ile Ala Glu Lys Leu Gly Gly Ser Leu Ile Val Ala Phe
 145 150 155 160
 Glu Gly Cys Pro Val
 165

<210> 58
 <211> 492
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Fascin
 <222> (1)..(492)
 <223> Accession NO: as of 29 August 2003: Q16658
 <400> 58

Thr Ala Asn Gly Thr Ala Glu Ala Val Gln Ile Gln Phe Gly Leu Ile
 1 5 10 15
 Asn Cys Gly Asn Lys Tyr Leu Thr Ala Glu Ala Phe Gly Phe Lys Val
 20 25 30
 Asn Ala Ser Ala Ser Ser Leu Lys Lys Lys Gln Ile Trp Thr Leu Glu
 35 40 45
 Gln Pro Pro Asp Glu Ala Gly Ser Ala Ala Val Cys Leu Arg Ser His

50		55		60
Leu Gly Arg Tyr Leu Ala Ala Asp Lys Asp Gly Asn Val Thr Cys Glu				
65	70	75	80	
Arg Glu Val Pro Gly Pro Asp Cys Arg Phe Leu Ile Val Ala His Asp				
	85	90	95	
Asp Gly Arg Trp Ser Leu Gln Ser Glu Ala His Arg Arg Tyr Phe Gly				
	100	105	110	
Gly Thr Glu Asp Arg Leu Ser Cys Phe Ala Gln Thr Val Ser Pro Ala				
	115	120	125	
Glu Lys Trp Ser Val His Ile Ala Met His Pro Gln Val Asn Ile Tyr				
	130	135	140	
Ser Val Thr Arg Lys Arg Tyr Ala His Leu Ser Ala Arg Pro Ala Asp				
145	150	155	160	
Glu Ile Ala Val Asp Arg Asp Val Pro Trp Gly Val Asp Ser Leu Ile				
	165	170	175	
Thr Leu Ala Phe Gln Asp Gln Arg Tyr Ser Val Gln Thr Ala Asp His				
	180	185	190	
Arg Phe Leu Arg His Asp Gly Arg Leu Val Ala Arg Pro Glu Pro Ala				
	195	200	205	
Thr Gly Tyr Thr Leu Glu Phe Arg Ser Gly Lys Val Ala Phe Arg Asp				
	210	215	220	
Cys Glu Gly Arg Tyr Leu Ala Pro Ser Gly Pro Ser Gly Thr Leu Lys				
225	230	235	240	
Ala Gly Lys Ala Thr Lys Val Gly Lys Asp Glu Leu Phe Ala Leu Glu				
	245	250	255	
Gln Ser Cys Ala Gln Val Val Leu Gln Ala Ala Asn Glu Arg Asn Val				
	260	265	270	
Ser Thr Arg Gln Gly Met Asp Leu Ser Ala Asn Gln Asp Glu Glu Thr				
	275	280	285	
Asp Gln Glu Thr Phe Gln Leu Glu Ile Asp Arg Asp Thr Lys Lys Cys				
	290	295	300	
Ala Phe Arg Thr His Thr Gly Lys Tyr Trp Thr Leu Thr Ala Thr Gly				
305	310	315	320	
Gly Val Gln Ser Thr Ala Ser Ser Lys Asn Ala Ser Cys Tyr Phe Asp				
	325	330	335	
Ile Glu Trp Arg Asp Arg Arg Ile Thr Leu Arg Ala Ser Asn Gly Lys				
	340	345	350	
Phe Val Thr Ser Lys Lys Asn Gly Gln Leu Ala Ala Ser Val Glu Thr				
	355	360	365	
Ala Gly Asp Ser Glu Leu Phe Leu Met Lys Leu Ile Asn Arg Pro Ile				
370	375	380		

Ile Val Phe Arg Gly Glu His Gly Phe Ile Gly Cys Arg Lys Val Thr
 385 390 395 400
 Gly Thr Leu Asp Ala Asn Arg Ser Ser Tyr Asp Val Phe Gln Leu Glu
 405 410 415
 Phe Asn Asp Gly Ala Tyr Asn Ile Lys Asp Ser Thr Gly Lys Tyr Trp
 420 425 430
 Thr Val Gly Ser Asp Ser Ala Val Thr Ser Ser Gly Asp Thr Pro Val
 435 440 445
 Asp Phe Phe Phe Glu Phe Cys Asp Tyr Asn Lys Val Ala Ile Lys Val
 450 455 460
 Gly Gly Arg Tyr Leu Lys Gly Asp His Ala Gly Val Leu Lys Ala Ser
 465 470 475 480
 Ala Glu Thr Val Asp Pro Ala Ser Leu Trp Glu Tyr
 325 490

<210> 59
 <211> 317
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Apo-E precursor
 <222> (1)..(317)
 <223> Accession NO: as of 29 August 2003: P02649
 <400> 59

Met Lys Val Leu Trp Ala Ala Leu Leu Val Thr Phe Leu Ala Gly Cys
 1 5 10 15
 Gln Ala Lys Val Glu Gln Ala Val Glu Thr Glu Pro Glu Pro Glu Leu
 20 25 30
 Arg Gln Gln Thr Glu Trp Gln Ser Gly Gln Arg Trp Glu Leu Ala Leu
 35 40 45
 Gly Arg Phe Trp Asp Tyr Leu Arg Trp Val Gln Thr Leu Ser Glu Gln
 50 55 60
 Val Gln Glu Glu Leu Leu Ser Ser Gln Val Thr Gln Glu Leu Arg Ala
 65 70 75 80
 Leu Met Asp Glu Thr Met Lys Glu Leu Lys Ala Tyr Lys Ser Glu Leu
 85 90 95
 Glu Glu Gln Leu Thr Pro Val Ala Glu Glu Thr Arg Ala Arg Leu Ser
 100 105 110
 Lys Glu Leu Gln Ala Ala Gln Ala Arg Leu Gly Ala Asp Met Glu Asp

115	120	125
Val Cys Gly Arg Leu Val Gln Tyr Arg Gly Glu Val Gln Ala Met Leu		
130	135	140
Gly Gln Ser Thr Glu Glu Leu Arg Val Arg Leu Ala Ser His Leu Arg		
145	150	155
Lys Leu Arg Lys Arg Leu Leu Arg Asp Ala Asp Asp Leu Gln Lys Arg		
165	170	175
Leu Ala Val Tyr Gln Ala Gly Ala Arg Glu Gly Ala Glu Arg Gly Leu		
180	185	190
Ser Ala Ile Arg Glu Arg Leu Gly Pro Leu Val Glu Gln Gly Arg Val		
195	200	205
Arg Ala Ala Thr Val Gly Ser Leu Ala Gly Gln Pro Leu Gln Glu Arg		
210	215	220
Ala Gln Ala Trp Gly Glu Arg Leu Arg Ala Arg Met Glu Glu Met Gly		
225	230	235
Ser Arg Thr Arg Asp Arg Leu Asp Glu Val Lys Glu Gln Val Ala Glu		
245	250	255
Val Arg Ala Lys Leu Glu Glu Gln Ala Gln Gln Ile Arg Leu Gln Ala		
260	265	270
Glu Ala Phe Gln Ala Arg Leu Lys Ser Trp Phe Glu Pro Leu Val Glu		
275	280	285
Asp Met Gln Arg Gln Trp Ala Gly Leu Val Glu Lys Val Gln Ala Ala		
290	295	300
Val Gly Thr Ser Ala Ala Pro Val Pro Ser Asp Asn His		
305	310	315

<210> 60
 <211> 838
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> hypothetical 88.6 kDa protein
 <222> (1)..(838)
 <223> Accession NO: as of 29 August 2003: Q96C61
 <400> 60

Met Pro Ser Gly Lys Val Ala Gln Pro Thr Ile Thr Asp Asn Lys Asp
1 5 10 15
Gly Thr Val Thr Val Arg Tyr Ala Pro Ser Glu Ala Gly Leu His Glu
20 25 30

355	360	365
Val Thr Ser Pro Ser Gly Lys Thr His Glu Ala Glu Ile Val Glu Gly		
370	375	380
Glu Asn His Thr Tyr Cys Ile Arg Phe Val Pro Ala Glu Met Gly Thr		
385	390	395
His Thr Val Ser Val Lys Tyr Lys Gly Gln His Val Pro Gly Ser Pro		
405	410	415
Phe Gln Phe Thr Val Gly Pro Leu Gly Glu Gly Gly Ala His Lys Val		
420	425	430
Arg Ala Gly Gly Pro Gly Leu Glu Arg Ala Glu Ala Gly Val Pro Ala		
435	440	445
Glu Phe Ser Ile Trp Thr Arg Glu Ala Gly Ala Gly Gly Leu Ala Ile		
450	455	460
Ala Val Glu Gly Pro Ser Lys Ala Glu Ile Ser Phe Glu Asp Arg Lys		
465	470	475
Asp Gly Ser Cys Gly Val Ala Tyr Val Val Gln Glu Pro Gly Asp Tyr		
485	490	495
Glu Val Ser Val Lys Phe Asn Glu Glu His Ile Pro Asp Ser Pro Phe		
500	505	510
Val Val Pro Val Ala Ser Pro Ser Gly Asp Ala Arg Arg Leu Thr Val		
515	520	525
Ser Ser Leu Gln Glu Ser Gly Leu Lys Val Asn Gln Pro Ala Ser Phe		
530	535	540
Ala Val Ser Leu Asn Gly Ala Lys Gly Ala Ile Asp Ala Lys Val His		
545	550	555
Ser Pro Ser Gly Ala Leu Glu Glu Cys Tyr Val Thr Glu Ile Asp Gln		
565	570	575
Asp Lys Tyr Ala Val Arg Phe Ile Pro Arg Glu Asn Gly Val Tyr Leu		
580	585	590
Ile Asp Val Lys Phe Asn Gly Thr His Ile Pro Gly Ser Pro Phe Lys		
595	600	605
Ile Arg Val Gly Glu Pro Gly His Gly Gly Asp Pro Gly Leu Val Ser		
610	615	620
Ala Tyr Gly Ala Gly Leu Glu Gly Gly Val Thr Gly Asn Pro Ala Glu		
625	630	635
Phe Val Val Asn Thr Ser Asn Ala Gly Ala Gly Ala Leu Ser Val Thr		
645	650	655
Ile Asp Gly Pro Ser Lys Val Lys Met Asp Cys Gln Glu Cys Pro Glu		
660	665	670
Gly Tyr Arg Val Thr Tyr Thr Pro Met Ala Pro Gly Ser Tyr Leu Ile		
675	680	685

Ser Ile Lys Tyr Gly Gly Pro Tyr His Ile Gly Gly Ser Pro Phe Lys
 690 695 700
 Ala Lys Val Thr Gly Pro Arg Leu Val Ser Asn His Ser Leu His Glu
 705 710 715 720
 Thr Ser Ser Val Phe Val Asp Ser Leu Thr Lys Ala Thr Cys Ala Pro
 725 730 735
 Gln His Gly Ala Pro Gly Pro Gly Pro Ala Asp Ala Ser Lys Val Val
 740 745 750
 Ala Lys Gly Leu Gly Leu Ser Lys Ala Tyr Val Gly Gln Lys Ser Ser
 755 760 765
 Phe Thr Val Asp Cys Ser Lys Ala Gly Asn Asn Met Leu Leu Val Gly
 770 775 780
 Val His Gly Pro Arg Thr Pro Cys Glu Glu Ile Leu Val Lys His Val
 785 790 795 800
 Gly Ser Arg Leu Tyr Ser Val Ser Tyr Leu Leu Lys Asp Lys Gly Glu
 805 810 815
 Tyr Thr Leu Val Val Lys Trp Gly Asp Glu His Ile Pro Gly Ser Pro
 820 825 830
 Tyr Arg Val Val Val Pro
 835

<210> 61
 <211> 433
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> human alpha enolase
 <222> (1)..(433)
 <223> Accession NO: as of 29 August 2003: P06733
 <400> 61

Ser Ile Leu Lys Ile His Ala Arg Glu Ile Phe Asp Ser Arg Gly Asn
 1 5 10 15
 Pro Thr Val Glu Val Asp Leu Phe Thr Ser Lys Gly Leu Phe Arg Ala
 20 25 30
 Ala Val Pro Ser Gly Ala Ser Thr Gly Ile Tyr Glu Ala Leu Glu Leu
 35 40 45
 Arg Asp Asn Asp Lys Thr Arg Tyr Met Gly Lys Gly Val Ser Lys Ala
 50 55 60
 Val Glu His Ile Asn Lys Thr Ile Ala Pro Ala Leu Val Ser Lys Lys

65		70		75		80
Leu Asn Val Thr Glu Gln Glu Lys Ile Asp Lys Leu Met Ile Glu Met						
	85		90		95	
Asp Gly Thr Glu Asn Lys Ser Lys Phe Gly Ala Asn Ala Ile Leu Gly						
	100		105		110	
Val Ser Leu Ala Val Cys Lys Ala Gly Ala Val Glu Lys Gly Val Pro						
	115		120		125	
Leu Tyr Arg His Ile Ala Asp Leu Ala Gly Asn Ser Glu Val Ile Leu						
	130		135		140	
Pro Val Pro Ala Phe Asn Val Ile Asn Gly Gly Ser His Ala Gly Asn						
145		150		155		160
Lys Leu Ala Met Gln Glu Phe Met Ile Leu Pro Val Gly Ala Ala Asn						
	165		170		175	
Phe Arg Glu Ala Met Arg Ile Gly Ala Glu Val Tyr His Asn Leu Lys						
	180		185		190	
Asn Val Ile Lys Glu Lys Tyr Gly Lys Asp Ala Thr Asn Val Gly Asp						
	195		200		205	
Glu Gly Gly Phe Ala Pro Asn Ile Leu Glu Asn Lys Glu Gly Leu Glu						
	210		215		220	
Leu Leu Lys Thr Ala Ile Gly Lys Ala Gly Tyr Thr Asp Lys Val Val						
225		230		235		240
Ile Gly Met Asp Val Ala Ala Ser Glu Phe Phe Arg Ser Gly Lys Tyr						
	245		250		255	
Asp Leu Asp Phe Lys Ser Pro Asp Asp Pro Ser Arg Tyr Ile Ser Pro						
	260		265		270	
Asp Gln Leu Ala Asp Leu Tyr Lys Ser Phe Ile Lys Asp Tyr Pro Val						
	275		280		285	
Val Ser Ile Glu Asp Pro Phe Asp Gln Asp Asp Trp Gly Ala Trp Gln						
	290		295		300	
Lys Phe Thr Ala Ser Ala Gly Ile Gln Val Val Gly Asp Asp Leu Thr						
305		310		315		320
Val Thr Asn Pro Lys Arg Ile Ala Lys Ala Val Asn Glu Lys Ser Cys						
	325		330		335	
Asn Cys Leu Leu Leu Lys Val Asn Gln Ile Gly Ser Val Thr Glu Ser						
	340		345		350	
Leu Gln Ala Cys Lys Leu Ala Gln Ala Asn Gly Trp Gly Val Met Val						
	355		360		365	
Ser His Arg Ser Gly Glu Thr Glu Asp Thr Phe Ile Ala Asp Leu Val						
	370		375		380	
Val Gly Leu Cys Thr Gly Gln Ile Lys Thr Gly Ala Pro Cys Arg Ser						
385		390		395		400

Glu Arg Leu Ala Lys Tyr Asn Gln Leu Leu Arg Ile Glu Glu Glu Leu
 405 410 415
 Gly Ser Lys Ala Lys Phe Ala Gly Arg Asn Phe Arg Asn Pro Leu Ala
 420 425 430
 Lys

<210> 62
 <211> 471
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> tryptophanyl-tRNA synthetase
 <222> (1)..(471)
 <223> Accession NO: as of 29 August 2003: P23381
 <400> 62

Met Pro Asn Ser Glu Pro Ala Ser Leu Leu Glu Leu Phe Asn Ser Ile
 1 5 10 15
 Ala Thr Gln Gly Glu Leu Val Arg Ser Leu Lys Ala Gly Asn Ala Ser
 20 25 30
 Lys Asp Glu Ile Asp Ser Ala Val Lys Met Leu Val Ser Leu Lys Met
 35 40 45
 Ser Tyr Lys Ala Ala Ala Gly Glu Asp Tyr Lys Ala Asp Cys Pro Pro
 50 55 60
 Gly Asn Pro Ala Pro Thr Ser Asn His Gly Pro Asp Ala Thr Glu Ala
 65 70 75 80
 Glu Glu Asp Phe Val Asp Pro Trp Thr Val Gln Thr Ser Ser Ala Lys
 85 90 95
 Gly Ile Asp Tyr Asp Lys Leu Ile Val Arg Phe Gly Ser Ser Lys Ile
 100 105 110
 Asp Lys Glu Leu Ile Asn Arg Ile Glu Arg Ala Thr Gly Gln Arg Pro
 115 120 125
 His His Phe Leu Arg Arg Gly Ile Phe Phe Ser His Arg Asp Met Asn
 130 135 140
 Gln Val Leu Asp Ala Tyr Glu Asn Lys Lys Pro Phe Tyr Leu Tyr Thr
 145 150 155 160
 Gly Arg Gly Pro Ser Ser Glu Ala Met His Val Gly His Leu Ile Pro
 165 170 175
 Phe Ile Phe Thr Lys Trp Leu Gln Asp Val Phe Asn Val Pro Leu Val

	180		185		190										
Ile	Gln	Met	Thr	Asp	Asp	Glu	Lys	Tyr	Leu	Trp	Lys	Asp	Leu	Thr	Leu
	195					200					205				
Asp	Gln	Ala	Tyr	Ser	Tyr	Ala	Val	Glu	Asn	Ala	Lys	Asp	Ile	Ile	Ala
	210					215					220				
Cys	Gly	Phe	Asp	Ile	Asn	Lys	Thr	Phe	Ile	Phe	Ser	Asp	Leu	Asp	Tyr
225					230					235					240
Met	Gly	Met	Ser	Ser	Gly	Phe	Tyr	Lys	Asn	Val	Val	Lys	Ile	Gln	Lys
			245						250					255	
His	Val	Thr	Phe	Asn	Gln	Val	Lys	Gly	Ile	Phe	Gly	Phe	Thr	Asp	Ser
			260					265					270		
Asp	Cys	Ile	Gly	Lys	Ile	Ser	Phe	Pro	Ala	Ile	Gln	Ala	Ala	Pro	Ser
	275						280				285				
Phe	Ser	Asn	Ser	Phe	Pro	Gln	Ile	Phe	Arg	Asp	Arg	Thr	Asp	Ile	Gln
	290					295					300				
Cys	Leu	Ile	Pro	Cys	Ala	Ile	Asp	Gln	Asp	Pro	Tyr	Phe	Arg	Met	Thr
305					310					315					320
Arg	Asp	Val	Ala	Pro	Arg	Ile	Gly	Tyr	Pro	Lys	Pro	Ala	Leu	Leu	His
					325					330				335	
Ser	Thr	Phe	Phe	Pro	Ala	Leu	Gln	Gly	Ala	Gln	Thr	Lys	Met	Ser	Ala
			340					345					350		
Ser	Asp	Pro	Asn	Ser	Ser	Ile	Phe	Leu	Thr	Asp	Thr	Ala	Lys	Gln	Ile
	355						360					365			
Lys	Thr	Lys	Val	Asn	Lys	His	Ala	Phe	Ser	Gly	Gly	Arg	Asp	Thr	Ile
	370					375						380			
Glu	Glu	His	Arg	Gln	Phe	Gly	Gly	Asn	Cys	Asp	Val	Asp	Val	Ser	Phe
385					390					395					400
Met	Tyr	Leu	Thr	Phe	Phe	Leu	Glu	Asp	Asp	Asp	Lys	Leu	Glu	Gln	Ile
				405					410					415	
Arg	Lys	Asp	Tyr	Thr	Ser	Gly	Ala	Met	Leu	Thr	Gly	Glu	Leu	Lys	Lys
			420					425					430		
Ala	Leu	Ile	Glu	Val	Leu	Gln	Pro	Leu	Ile	Ala	Glu	His	Gln	Ala	Arg
	435						440					445			
Arg	Lys	Glu	Val	Thr	Asp	Glu	Ile	Val	Lys	Glu	Phe	Met	Thr	Pro	Arg
	450					455					460				
Lys	Leu	Ser	Phe	Asp	Phe	Gln									
	325			470											

<210> 63
 <211> 106

<212> PRT
 <213> Homo sapiens
 <220>
 <221> Ig kappa chain C regionI
 <222> (1)..(106)
 <223> Accession NO: as of 29 August 2003: P01834
 <400> 63

Thr	Val	Ala	Ala	Pro	Ser	Val	Phe	Ile	Phe	Pro	Pro	Ser	Asp	Glu	Gln
1				5					10					15	
Leu	Lys	Ser	Gly	Thr	Ala	Ser	Val	Val	Cys	Leu	Leu	Asn	Asn	Phe	Tyr
			20					25					30		
Pro	Arg	Glu	Ala	Lys	Val	Gln	Trp	Lys	Val	Asp	Asn	Ala	Leu	Gln	Ser
		35					40					45			
Gly	Asn	Ser	Gln	Glu	Ser	Val	Thr	Glu	Gln	Asp	Ser	Lys	Asp	Ser	Thr
	50					55				60					
Tyr	Ser	Leu	Ser	Ser	Thr	Leu	Thr	Leu	Ser	Lys	Ala	Asp	Tyr	Glu	Lys
65					70					75				80	
His	Lys	Val	Tyr	Ala	Cys	Glu	Val	Thr	His	Gln	Gly	Leu	Ser	Ser	Pro
				85					90				95		
Val	Thr	Lys	Ser	Phe	Asn	Arg	Gly	Glu	Cys						
				325		105									

<210> 64
 <211> 758
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Mitofilin
 <222> (1)..(758)
 <223> Accession NO: as of 29 August 2003: Q16891
 <400> 64

Met	Leu	Arg	Ala	Cys	Gln	Leu	Ser	Gly	Val	Thr	Ala	Ala	Ala	Gln	Ser
1				5					10					15	
Cys	Leu	Cys	Gly	Lys	Phe	Val	Leu	Arg	Pro	Leu	Arg	Pro	Cys	Arg	Arg
			20					25					30		
Tyr	Ser	Thr	Ser	Gly	Ser	Ser	Gly	Leu	Thr	Thr	Gly	Lys	Ile	Ala	Gly
		35					40					45			
Ala	Gly	Leu	Leu	Phe	Val	Gly	Gly	Gly	Ile	Gly	Gly	Thr	Ile	Leu	Tyr

50		55		60
Ala Lys Trp Asp Ser His Phe Arg Glu Ser Val Glu Lys Thr Ile Pro				
65		70		75
Tyr Ser Asp Lys Leu Phe Glu Met Val Leu Gly Pro Ala Ala Tyr Asn				80
	85		90	95
Val Pro Leu Pro Lys Lys Ser Ile Gln Ser Gly Pro Leu Lys Ile Ser				
	100		105	110
Ser Val Ser Glu Val Met Lys Glu Ser Lys Gln Pro Ala Ser Gln Leu				
	115		120	125
Gln Lys Gln Lys Gly Asp Thr Pro Ala Ser Ala Thr Ala Pro Thr Glu				
	130		135	140
Ala Ala Gln Ile Ile Ser Ala Ala Gly Asp Thr Leu Ser Val Pro Ala				
145		150		155
Pro Ala Val Gln Pro Glu Glu Ser Leu Lys Thr Asp His Pro Glu Ile				160
	165		170	175
Gly Glu Gly Lys Pro Thr Pro Ala Leu Ser Glu Glu Ala Ser Ser Ser				
	180		185	190
Ser Ile Arg Glu Arg Pro Pro Glu Glu Val Ala Ala Arg Leu Ala Gln				
	195		200	205
Gln Glu Lys Gln Glu Gln Val Lys Ile Glu Ser Leu Ala Lys Ser Leu				
	210		215	220
Glu Asp Ala Leu Arg Gln Thr Ala Ser Val Thr Leu Gln Ala Ile Ala				
225		230		235
Ala Gln Asn Ala Ala Val Gln Ala Val Asn Ala His Ser Asn Ile Leu				240
	245		250	255
Lys Ala Ala Met Asp Asn Ser Glu Ile Ala Gly Glu Lys Lys Ser Ala				
	260		265	270
Gln Trp Arg Thr Val Glu Gly Ala Leu Lys Glu Arg Arg Lys Ala Val				
	275		280	285
Asp Glu Ala Ala Asp Ala Leu Leu Lys Ala Lys Glu Glu Leu Glu Lys				
	290		295	300
Met Lys Ser Val Ile Glu Asn Ala Lys Lys Lys Glu Val Ala Gly Ala				
305		310		315
Lys Pro His Ile Thr Ala Ala Glu Gly Lys Leu His Asn Met Ile Val				320
	325		330	335
Asp Leu Asp Asn Val Val Lys Lys Val Gln Ala Ala Gln Ser Glu Ala				
	340		345	350
Lys Val Val Ser Gln Tyr His Glu Leu Val Val Gln Ala Arg Asp Asp				
	355		360	365
Phe Lys Arg Glu Leu Asp Ser Ile Thr Pro Glu Val Leu Pro Gly Trp				
370		375		380

Lys Gly Met Ser Val Ser Asp Leu Ala Asp Lys Leu Ser Thr Asp Asp
 385 390 395 400
 Leu Asn Ser Leu Ile Ala His Ala His Arg Arg Ile Asp Gln Leu Asn
 405 410 415
 Arg Glu Leu Ala Glu Gln Lys Ala Thr Glu Lys Gln His Ile Thr Leu
 420 425 430
 Ala Leu Glu Lys Gln Lys Leu Glu Glu Lys Arg Ala Phe Asp Ser Ala
 435 440 445
 Val Ala Lys Ala Leu Glu His His Arg Ser Glu Ile Gln Ala Glu Gln
 450 455 460
 Asp Arg Lys Ile Glu Glu Val Arg Asp Ala Met Glu Asn Glu Met Arg
 465 470 475 480
 Thr Gln Leu Arg Arg Gln Ala Ala Ala His Thr Asp His Leu Arg Asp
 485 490 495
 Val Leu Arg Val Gln Glu Gln Glu Leu Lys Ser Glu Phe Glu Gln Asn
 500 505 510
 Leu Ser Glu Lys Leu Ser Glu Gln Glu Leu Gln Phe Arg Arg Leu Ser
 515 520 525
 Gln Glu Gln Val Asp Asn Phe Thr Leu Asp Ile Asn Thr Ala Tyr Ala
 530 535 540
 Arg Leu Arg Gly Ile Glu Gln Ala Val Gln Ser His Ala Val Ala Glu
 545 550 555 560
 Glu Glu Ala Arg Lys Ala His Gln Leu Trp Leu Ser Val Glu Ala Leu
 565 570 575
 Lys Tyr Ser Met Lys Thr Ser Ser Ala Glu Thr Pro Thr Ile Pro Leu
 580 585 590
 Gly Ser Ala Val Glu Ala Ile Lys Ala Asn Cys Ser Asp Asn Glu Phe
 595 600 605
 Thr Gln Ala Leu Thr Ala Ala Ile Pro Pro Glu Ser Leu Thr Arg Gly
 610 615 620
 Val Tyr Ser Glu Glu Thr Leu Arg Ala Arg Phe Tyr Ala Val Gln Lys
 625 630 635 640
 Leu Ala Arg Arg Val Ala Met Ile Asp Glu Thr Arg Asn Ser Leu Tyr
 645 650 655
 Gln Tyr Phe Leu Ser Tyr Leu Gln Ser Leu Leu Leu Phe Pro Pro Gln
 660 665 670
 Gln Leu Lys Pro Pro Pro Glu Leu Cys Pro Glu Asp Ile Asn Thr Phe
 675 680 685
 Lys Leu Leu Ser Tyr Ala Ser Tyr Cys Ile Glu His Gly Asp Leu Glu
 690 695 700
 Leu Ala Ala Lys Phe Val Asn Gln Leu Lys Gly Glu Ser Arg Arg Val

705 710 715 720
 Ala Gln Asp Trp Leu Lys Glu Ala Arg Met Thr Leu Glu Thr Lys Gln
 725 730 735
 Ile Val Glu Ile Leu Thr Ala Tyr Ala Ser Ala Val Gly Ile Gly Thr
 740 745 750
 Thr Gln Val Gln Pro Glu
 755

<210> 65
 <211> 1410
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Ribosome-binding protein 1
 <222> (1)..(1410)
 <223> Accession NO: as of 29 August 2003: O75300
 <400> 65

Met Asp Ile Tyr Asp Thr Gln Thr Leu Gly Val Val Val Phe Gly Gly
 1 5 10 15
 Phe Met Val Val Ser Ala Ile Gly Ile Phe Leu Val Ser Thr Phe Ser
 20 25 30
 Met Lys Glu Thr Ser Tyr Glu Glu Ala Leu Ala Asn Gln Arg Lys Glu
 35 40 45
 Met Ala Lys Thr His His Gln Lys Val Glu Lys Lys Lys Lys Glu Lys
 50 55 60
 Thr Val Glu Lys Lys Gly Lys Thr Lys Lys Lys Glu Glu Lys Pro Asn
 65 70 75 80
 Gly Lys Ile Pro Asp His Asp Pro Ala Pro Asn Val Thr Val Leu Leu
 85 90 95
 Arg Glu Pro Val Arg Ala Pro Ala Val Ala Val Ala Pro Thr Pro Val
 100 105 110
 Gln Pro Pro Ile Ile Val Ala Pro Val Ala Thr Val Pro Ala Met Pro
 115 120 125
 Gln Glu Lys Leu Ala Ser Ser Pro Lys Asp Lys Lys Lys Lys Glu Lys
 130 135 140
 Lys Val Ala Lys Val Glu Pro Ala Val Ser Ser Val Val Asn Ser Ile
 145 150 155 160
 Gln Val Leu Thr Ser Lys Ala Ala Ile Leu Glu Thr Ala Pro Lys Glu
 165 170 175

Val	Pro	Met	Val	Val	Val	Pro	Pro	Val	Gly	Ala	Lys	Gly	Asn	Thr	Pro
180						185						190			
Ala	Thr	Gly	Thr	Thr	Gln	Gly	Lys	Lys	Ala	Glu	Gly	Thr	Gln	Asn	Gln
195						200						205			
Ser	Lys	Lys	Ala	Glu	Gly	Ala	Pro	Asn	Gln	Gly	Arg	Lys	Ala	Glu	Gly
210						215						220			
Thr	Pro	Asn	Gln	Gly	Lys	Lys	Thr	Glu	Gly	Thr	Pro	Asn	Gln	Gly	Lys
225			230						235			240			
Lys	Ala	Glu	Gly	Thr	Pro	Asn	Gln	Gly	Lys	Lys	Ala	Glu	Gly	Thr	Pro
245						250						255			
Asn	Gln	Gly	Lys	Lys	Ala	Glu	Gly	Ala	Gln	Asn	Gln	Gly	Lys	Lys	Val
260						265						270			
Asp	Thr	Thr	Pro	Asn	Gln	Gly	Lys	Lys	Val	Glu	Gly	Ala	Pro	Thr	Gln
275						280						285			
Gly	Arg	Lys	Ala	Glu	Gly	Ala	Gln	Asn	Gln	Ala	Lys	Lys	Val	Glu	Gly
290						295						300			
Ala	Gln	Asn	Gln	Gly	Lys	Lys	Ala	Glu	Gly	Ala	Gln	Asn	Gln	Gly	Lys
305			310						315			320			
Lys	Gly	Glu	Gly	Ala	Gln	Asn	Gln	Gly	Lys	Lys	Ala	Glu	Gly	Ala	Gln
325						330						335			
Asn	Gln	Gly	Lys	Lys	Ala	Glu	Gly	Ala	Gln	Asn	Gln	Gly	Lys	Lys	Ala
340						345						350			
Glu	Gly	Ala	Gln	Asn	Gln	Gly	Lys	Lys	Ala	Glu	Gly	Ala	Gln	Asn	Gln
355						360						365			
Gly	Lys	Lys	Ala	Glu	Gly	Ala	Gln	Asn	Gln	Gly	Lys	Lys	Ser	Glu	Gly
370						375						380			
Ala	Gln	Asn	Gln	Gly	Lys	Lys	Val	Glu	Gly	Ala	Gln	Asn	Gln	Gly	Lys
385			390						395			400			
Lys	Ala	Glu	Gly	Ala	Gln	Asn	Gln	Gly	Lys	Lys	Ala	Glu	Gly	Ala	Gln
405						410						415			
Asn	Gln	Gly	Lys	Lys	Ala	Glu	Gly	Ala	Gln	Asn	Gln	Gly	Lys	Lys	Ala
420						425						430			
Glu	Gly	Ala	Gln	Asn	Gln	Gly	Lys	Lys	Ala	Glu	Gly	Ala	Gln	Asn	Gln
435						440						445			
Gly	Lys	Lys	Ala	Glu	Gly	Ala	Gln	Asn	Gln	Gly	Lys	Lys	Ala	Glu	Gly
450						455						460			
Ala	Gln	Asn	Gln	Gly	Lys	Lys	Val	Glu	Gly	Ala	Gln	Asn	Gln	Gly	Lys
465			470						475			480			
Lys	Ala	Glu	Gly	Ala	Gln	Asn	Gln	Gly	Lys	Lys	Ala	Glu	Gly	Ala	Gln
485						490						495			
Asn	Gln	Gly	Lys	Lys	Ala	Glu	Gly	Ala	Gln	Asn	Gln	Gly	Gln	Lys	Gly

500					505					510						
Glu	Gly	Ala	Gln	Asn	Gln	Gly	Lys	Lys	Thr	Glu	Gly	Ala	Gln	Gly	Lys	
515					520					525						
Lys	Ala	Glu	Arg	Ser	Pro	Asn	Gln	Gly	Lys	Lys	Gly	Glu	Gly	Ala	Pro	
530					535					540						
Ile	Gln	Gly	Lys	Lys	Ala	Asp	Ser	Val	Ala	Asn	Gln	Gly	Thr	Lys	Val	
545					550					555					560	
Glu	Gly	Ile	Thr	Asn	Gln	Gly	Lys	Lys	Ala	Glu	Gly	Ser	Pro	Ser	Glu	
565					570					575						
Gly	Lys	Lys	Ala	Glu	Gly	Ser	Pro	Asn	Gln	Gly	Lys	Lys	Ala	Asp	Ala	
580					585					590						
Ala	Ala	Asn	Gln	Gly	Lys	Lys	Thr	Glu	Ser	Ala	Ser	Val	Gln	Gly	Arg	
595					600					605						
Asn	Thr	Asp	Val	Ala	Gln	Ser	Pro	Glu	Ala	Pro	Lys	Gln	Glu	Ala	Pro	
610					615					620						
Ala	Lys	Lys	Lys	Ser	Gly	Ser	Lys	Lys	Lys	Gly	Glu	Pro	Gly	Pro	Pro	
625					630					635					640	
Asp	Ala	Asp	Gly	Pro	Leu	Tyr	Leu	Pro	Tyr	Lys	Thr	Leu	Val	Ser	Thr	
645					650					655						
Val	Gly	Ser	Met	Val	Phe	Asn	Glu	Gly	Glu	Ala	Gln	Arg	Leu	Ile	Glu	
660					665					670						
Ile	Leu	Ser	Glu	Lys	Ala	Gly	Ile	Ile	Gln	Asp	Thr	Trp	His	Lys	Ala	
675					680					685						
Thr	Gln	Lys	Gly	Asp	Pro	Val	Ala	Ile	Leu	Lys	Arg	Gln	Leu	Glu	Glu	
690					695					700						
Lys	Glu	Lys	Leu	Leu	Ala	Thr	Glu	Gln	Glu	Asp	Ala	Ala	Val	Ala	Lys	
705					710					715					720	
Ser	Lys	Leu	Arg	Glu	Leu	Asn	Lys	Glu	Met	Ala	Ala	Glu	Lys	Ala	Lys	
725					730					735						
Ala	Ala	Ala	Gly	Glu	Ala	Lys	Val	Lys	Lys	Gln	Leu	Val	Ala	Arg	Glu	
740					745					750						
Gln	Glu	Ile	Thr	Ala	Val	Gln	Ala	Arg	Met	Gln	Ala	Ser	Tyr	Arg	Glu	
755					760					765						
His	Val	Lys	Glu	Val	Gln	Gln	Leu	Gln	Gly	Lys	Ile	Arg	Thr	Leu	Gln	
770					775					780						
Glu	Gln	Leu	Glu	Asn	Gly	Pro	Asn	Thr	Gln	Leu	Ala	Arg	Leu	Gln	Gln	
785					790					795					800	
Glu	Asn	Ser	Ile	Leu	Arg	Asp	Ala	Leu	Asn	Gln	Ala	Thr	Ser	Gln	Val	
805					810					815						
Glu	Ser	Lys	Gln	Asn	Ala	Glu	Leu	Ala	Lys	Leu	Arg	Gln	Glu	Leu	Ser	
820					825					830						

Lys Val Ser Lys Glu Leu Val Glu Lys Ser Glu Ala Val Arg Gln Asp
 835 840 845
 Glu Gln Gln Arg Lys Ala Leu Glu Ala Lys Ala Ala Ala Phe Glu Lys
 850 855 860
 Gln Val Leu Gln Leu Gln Ala Ser His Arg Glu Ser Glu Glu Ala Leu
 865 870 875 880
 Gln Lys Arg Leu Asp Glu Val Ser Arg Glu Leu Cys His Thr Gln Ser
 885 890 895
 Ser His Ala Ser Leu Arg Ala Asp Ala Glu Lys Ala Gln Glu Gln Gln
 900 905 910
 Gln Gln Met Ala Glu Leu His Ser Lys Leu Gln Ser Ser Glu Ala Glu
 915 920 925
 Val Arg Ser Lys Cys Glu Glu Leu Ser Gly Leu His Gly Gln Leu Gln
 930 935 940
 Glu Ala Arg Ala Glu Asn Ser Gln Leu Thr Glu Arg Ile Arg Ser Ile
 945 950 955 960
 Glu Ala Leu Leu Glu Ala Gly Gln Ala Arg Asp Ala Gln Asp Val Gln
 965 970 975
 Ala Ser Gln Ala Glu Ala Asp Gln Gln Gln Thr Arg Leu Lys Glu Leu
 980 985 990
 Glu Ser Gln Val Ser Gly Leu Glu Lys Glu Ala Ile Glu Leu Arg Glu
 995 1000 1005
 Ala Val Glu Gln Gln Lys Val Lys Asn Asn Asp Leu Arg Glu Lys
 1010 1015 1020
 Asn Trp Lys Ala Met Glu Ala Leu Ala Thr Ala Glu Gln Ala Cys
 1025 1030 1035
 Lys Glu Lys Leu Leu Ser Leu Thr Gln Ala Lys Glu Glu Ser Glu
 1040 1045 1050
 Lys Gln Leu Cys Leu Ile Glu Ala Gln Thr Met Glu Ala Leu Leu
 1055 1060 1065
 Ala Leu Leu Pro Glu Leu Ser Val Leu Ala Gln Gln Asn Tyr Thr
 1070 1075 1080
 Glu Trp Leu Gln Asp Leu Lys Glu Lys Gly Pro Thr Leu Leu Lys
 1085 1090 1095
 His Pro Pro Ala Pro Ala Glu Pro Ser Ser Asp Leu Ala Ser Lys
 1100 1105 1110
 Leu Arg Glu Ala Glu Glu Thr Gln Ser Thr Leu Gln Ala Glu Cys
 1115 1120 1125
 Asp Gln Tyr Arg Ser Ile Leu Ala Glu Thr Glu Gly Met Leu Arg
 1130 1135 1140
 Asp Leu Gln Lys Ser Val Glu Glu Glu Glu Gln Val Trp Arg Ala

1145	1150	1155
Lys Val Gly Ala Ala Glu Glu	Glu Leu Gln Lys Ser	Arg Val Thr
1160	1165	1170
Val Lys His Leu Glu Glu Ile	Val Glu Lys Leu Lys	Gly Glu Leu
1175	1180	1185
Glu Ser Ser Asp Gln Val Arg	Glu His Thr Ser His	Leu Glu Ala
1190	1195	1200
Glu Leu Glu Lys His Met Ala	Ala Ala Ser Ala Glu	Cys Gln Asn
1205	1210	1215
Tyr Ala Lys Glu Val Ala Gly	Leu Arg Gln Leu Leu	Leu Glu Ser
1220	1225	1230
Gln Ser Gln Leu Asp Ala Ala	Lys Ser Glu Ala Gln	Lys Gln Ser
1235	1240	1245
Asp Glu Leu Ala Leu Val Arg	Gln Gln Leu Ser Glu	Met Lys Ser
1250	1255	1260
His Val Glu Asp Gly Asp Ile	Ala Gly Ala Pro Ala	Ser Ser Pro
1265	1270	1275
Glu Ala Pro Pro Ala Glu Gln	Asp Pro Val Gln Leu	Lys Thr Gln
1280	1285	1290
Leu Glu Trp Thr Glu Ala Ile	Leu Glu Asp Glu Gln	Thr Gln Arg
1295	1300	1305
Gln Lys Leu Thr Ala Glu Phe	Glu Glu Ala Gln Thr	Ser Ala Cys
1310	1315	1320
Arg Leu Gln Glu Glu Leu Glu	Lys Leu Arg Thr Ala	Gly Pro Leu
1325	1330	1335
Glu Ser Ser Glu Thr Glu Glu	Ala Ser Gln Leu Lys	Glu Arg Leu
1340	1345	1350
Glu Lys Glu Lys Lys Leu Thr	Ser Asp Leu Gly Arg	Ala Ala Thr
1355	1360	1365
Arg Leu Gln Glu Leu Leu Lys	Thr Thr Gln Glu Gln	Leu Ala Arg
1370	1375	1380
Glu Lys Asp Thr Val Lys Lys	Leu Gln Glu Gln Leu	Glu Lys Ala
1385	1390	1395
Glu Asp Gly Ser Ser Ser Lys	Glu Gly Thr Ser Val	
1400	1405	1410

<210> 66

<211> 453

<212> PRT

<213> Homo sapiens

<400> 66

- 120 -

275 280 285
 Ala Met Phe Lys Val Gly Pro Glu Ala Asp Lys Tyr Arg Leu Thr Tyr
 290 295 300
 Ala Tyr Phe Ala Gly Gly Asp Ala Gly Asp Ala Phe Asp Gly Phe Asp
 305 310 315 320
 Phe Gly Asp Asp Pro Ser Asp Lys Phe Phe Thr Ser His Asn Gly Met
 325 330 335
 Gln Phe Ser Thr Trp Asp Asn Asp Asn Asp Lys Phe Glu Gly Asn Cys
 340 345 350
 Ala Glu Gln Asp Gly Ser Gly Trp Trp Met Asn Lys Cys His Ala Gly
 355 360 365
 His Leu Asn Gly Val Tyr Tyr Gln Gly Gly Thr Tyr Ser Lys Ala Ser
 370 375 380
 Thr Pro Asn Gly Tyr Asp Asn Gly Ile Ile Trp Ala Thr Trp Lys Thr
 385 390 395 400
 Arg Trp Tyr Ser Met Lys Lys Thr Thr Met Lys Ile Ile Pro Phe Asn
 405 410 415
 Arg Leu Thr Ile Gly Glu Gly Gln Gln His His Leu Gly Gly Ala Lys
 420 425 430
 Gln Val Arg Pro Glu His Pro Ala Glu Thr Glu Tyr Asp Ser Leu Tyr
 435 440 445
 Pro Glu Asp Asp Leu
 450

<210> 67
 <211> 622
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Prothrombin recursor
 <222> (1)..(622)
 <223> Accession NO: as of 29 August 2003: P00734
 <400> 67

Met Ala His Val Arg Gly Leu Gln Leu Pro Gly Cys Leu Ala Leu Ala
 1 5 10 15
 Ala Leu Cys Ser Leu Val His Ser Gln His Val Phe Leu Ala Pro Gln
 20 25 30
 Gln Ala Arg Ser Leu Leu Gln Arg Val Arg Arg Ala Asn Thr Phe Leu
 35 40 45

Glu	Glu	Val	Arg	Lys	Gly	Asn	Leu	Glu	Arg	Glu	Cys	Val	Glu	Glu	Thr	50	55	60	
Cys	Ser	Tyr	Glu	Glu	Ala	Phe	Glu	Ala	Leu	Glu	Ser	Ser	Thr	Ala	Thr	65	70	75	80
Asp	Val	Phe	Trp	Ala	Lys	Tyr	Thr	Ala	Cys	Glu	Thr	Ala	Arg	Thr	Pro	85	90	95	
Arg	Asp	Lys	Leu	Ala	Ala	Cys	Leu	Glu	Gly	Asn	Cys	Ala	Glu	Gly	Leu	100	105	110	
Gly	Thr	Asn	Tyr	Arg	Gly	His	Val	Asn	Ile	Thr	Arg	Ser	Gly	Ile	Glu	115	120	125	
Cys	Gln	Leu	Trp	Arg	Ser	Arg	Tyr	Pro	His	Lys	Pro	Glu	Ile	Asn	Ser	130	135	140	
Thr	Thr	His	Pro	Gly	Ala	Asp	Leu	Gln	Glu	Asn	Phe	Cys	Arg	Asn	Pro	145	150	155	160
Asp	Ser	Ser	Thr	Thr	Gly	Pro	Trp	Cys	Tyr	Thr	Thr	Asp	Pro	Thr	Val	165	170	175	
Arg	Arg	Gln	Glu	Cys	Ser	Ile	Pro	Val	Cys	Gly	Gln	Asp	Gln	Val	Thr	180	185	190	
Val	Ala	Met	Thr	Pro	Arg	Ser	Glu	Gly	Ser	Ser	Val	Asn	Leu	Ser	Pro	195	200	205	
Pro	Leu	Glu	Gln	Cys	Val	Pro	Asp	Arg	Gly	Gln	Gln	Tyr	Gln	Gly	Arg	210	215	220	
Leu	Ala	Val	Thr	Thr	His	Gly	Leu	Pro	Cys	Leu	Ala	Trp	Ala	Ser	Ala	225	230	235	240
Gln	Ala	Lys	Ala	Leu	Ser	Lys	His	Gln	Asp	Phe	Asn	Ser	Ala	Val	Gln	245	250	255	
Leu	Val	Glu	Asn	Phe	Cys	Arg	Asn	Pro	Asp	Gly	Asp	Glu	Glu	Gly	Val	260	265	270	
Trp	Cys	Tyr	Val	Ala	Gly	Lys	Pro	Gly	Asp	Phe	Gly	Tyr	Cys	Asp	Leu	275	280	285	
Asn	Tyr	Cys	Glu	Glu	Ala	Val	Glu	Glu	Glu	Thr	Gly	Asp	Gly	Leu	Asp	290	295	300	
Glu	Asp	Ser	Asp	Arg	Ala	Ile	Glu	Gly	Arg	Thr	Ala	Thr	Ser	Glu	Tyr	305	310	315	320
Gln	Thr	Phe	Phe	Asn	Pro	Arg	Thr	Phe	Gly	Ser	Gly	Glu	Ala	Asp	Cys	325	330	335	
Gly	Leu	Arg	Pro	Leu	Phe	Glu	Lys	Lys	Ser	Leu	Glu	Asp	Lys	Thr	Glu	340	345	350	
Arg	Glu	Leu	Leu	Glu	Ser	Tyr	Ile	Asp	Gly	Arg	Ile	Val	Glu	Gly	Ser	355	360	365	
Asp	Ala	Glu	Ile	Gly	Met	Ser	Pro	Trp	Gln	Val	Met	Leu	Phe	Arg	Lys				

370	375	380
Ser Pro Gln Glu Leu Leu Cys Gly Ala Ser Leu Ile Ser Asp Arg Trp		
385	390	395
Val Leu Thr Ala Ala His Cys Leu Leu Tyr Pro Pro Trp Asp Lys Asn		400
	405	410
Phe Thr Glu Asn Asp Leu Leu Val Arg Ile Gly Lys His Ser Arg Thr		415
	420	425
Arg Tyr Glu Arg Asn Ile Glu Lys Ile Ser Met Leu Glu Lys Ile Tyr		430
	435	440
Ile His Pro Arg Tyr Asn Trp Arg Glu Asn Leu Asp Arg Asp Ile Ala		445
	450	455
Leu Met Lys Leu Lys Lys Pro Val Ala Phe Ser Asp Tyr Ile His Pro		460
465	470	475
Val Cys Leu Pro Asp Arg Glu Thr Ala Ala Ser Leu Leu Gln Ala Gly		480
	485	490
Tyr Lys Gly Arg Val Thr Gly Trp Gly Asn Leu Lys Glu Thr Trp Thr		495
	500	505
Ala Asn Val Gly Lys Gly Gln Pro Ser Val Leu Gln Val Val Asn Leu		510
	515	520
Pro Ile Val Glu Arg Pro Val Cys Lys Asp Ser Thr Arg Ile Arg Ile		525
	530	535
Thr Asp Asn Met Phe Cys Ala Gly Tyr Lys Pro Asp Glu Gly Lys Arg		540
545	550	555
Gly Asp Ala Cys Glu Gly Asp Ser Gly Gly Pro Phe Val Met Lys Ser		560
	565	570
Pro Phe Asn Asn Arg Trp Tyr Gln Met Gly Ile Val Ser Trp Gly Glu		575
	580	585
Gly Cys Asp Arg Asp Gly Lys Tyr Gly Phe Tyr Thr His Val Phe Arg		590
	595	600
Leu Lys Lys Trp Ile Gln Lys Val Ile Asp Gln Phe Gly Glu		605
610	615	620

<210> 68

<211> 530

<212> PRT

<213> Homo sapiens

<220>

<221> Pyruvate kinase

<222> (1)..(530)

<223> Accession NO: as of 29 August 2003: P14618

<400> 68

Ser	Lys	Pro	His	Ser	Glu	Ala	Gly	Thr	Ala	Phe	Ile	Gln	Thr	Gln	Gln
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Leu	His	Ala	Ala	Met	Ala	Asp	Thr	Phe	Leu	Glu	His	Met	Cys	Arg	Leu
			20					25					30		
Asp	Ile	Asp	Ser	Pro	Pro	Ile	Thr	Ala	Arg	Asn	Thr	Gly	Ile	Ile	Cys
		35					40					45			
Thr	Ile	Gly	Pro	Ala	Ser	Arg	Ser	Val	Glu	Thr	Leu	Lys	Glu	Met	Ile
	50					55					60				
Lys	Ser	Gly	Met	Asn	Val	Ala	Arg	Leu	Asn	Phe	Ser	His	Gly	Thr	His
65				70					75					80	
Glu	Tyr	His	Ala	Glu	Thr	Ile	Lys	Asn	Val	Arg	Thr	Ala	Thr	Glu	Ser
			85					90					95		
Phe	Ala	Ser	Asp	Pro	Ile	Leu	Tyr	Arg	Pro	Val	Ala	Val	Ala	Leu	Asp
			100					105					110		
Thr	Lys	Gly	Pro	Glu	Ile	Arg	Thr	Gly	Leu	Ile	Lys	Gly	Ser	Gly	Thr
		115				120						125			
Ala	Glu	Val	Glu	Leu	Lys	Lys	Gly	Ala	Thr	Leu	Lys	Ile	Thr	Leu	Asp
	130					135					140				
Asn	Ala	Tyr	Met	Glu	Lys	Cys	Asp	Glu	Asn	Ile	Leu	Trp	Leu	Asp	Tyr
145				150					155					160	
Lys	Asn	Ile	Cys	Lys	Val	Val	Glu	Val	Gly	Ser	Lys	Ile	Tyr	Val	Asp
			165					170					175		
Asp	Gly	Leu	Ile	Ser	Leu	Gln	Val	Lys	Gln	Lys	Gly	Ala	Asp	Phe	Leu
		180						185					190		
Val	Thr	Glu	Val	Glu	Asn	Gly	Gly	Ser	Leu	Gly	Ser	Lys	Lys	Gly	Val
	195					200						205			
Asn	Leu	Pro	Gly	Ala	Ala	Val	Asp	Leu	Pro	Ala	Val	Ser	Glu	Lys	Asp
	210					215					220				
Ile	Gln	Asp	Leu	Lys	Phe	Gly	Val	Glu	Gln	Asp	Val	Asp	Met	Val	Phe
225				230					235					240	
Ala	Ser	Phe	Ile	Arg	Lys	Ala	Ser	Asp	Val	His	Glu	Val	Arg	Lys	Val
			245					250					255		
Leu	Gly	Glu	Lys	Gly	Lys	Asn	Ile	Lys	Ile	Ile	Ser	Lys	Ile	Glu	Asn
		260						265					270		
His	Glu	Gly	Val	Arg	Arg	Phe	Asp	Glu	Ile	Leu	Glu	Ala	Ser	Asp	Gly
	275					280						285			
Ile	Met	Val	Ala	Arg	Gly	Asp	Leu	Gly	Ile	Glu	Ile	Pro	Ala	Glu	Lys
	290					295					300				
Val	Phe	Leu	Ala	Gln	Lys	Met	Met	Ile	Gly	Arg	Cys	Asn	Arg	Ala	Gly

305 310 315 320
 Lys Pro Val Ile Cys Ala Thr Gln Met Leu Glu Ser Met Ile Lys Lys
 325 330 335
 Pro Arg Pro Thr Arg Ala Glu Gly Ser Asp Val Ala Asn Ala Val Leu
 340 345 350
 Asp Gly Ala Asp Cys Ile Met Leu Ser Gly Glu Thr Ala Lys Gly Asp
 355 360 365
 Tyr Pro Leu Glu Ala Val Arg Met Gln His Leu Ile Ala Arg Glu Ala
 370 375 380
 Glu Ala Ala Ile Tyr His Leu Gln Leu Phe Glu Glu Leu Arg Arg Leu
 385 390 395 400
 Ala Pro Ile Thr Ser Asp Pro Thr Glu Ala Thr Ala Val Gly Ala Val
 405 410 415
 Glu Ala Ser Phe Lys Cys Cys Ser Gly Ala Ile Ile Val Leu Thr Lys
 420 425 430
 Ser Gly Arg Ser Ala His Gln Val Ala Arg Tyr Arg Pro Arg Ala Pro
 435 440 445
 Ile Ile Ala Val Thr Arg Asn Pro Gln Thr Ala Arg Gln Ala His Leu
 450 455 460
 Tyr Arg Gly Ile Phe Pro Val Leu Cys Lys Asp Pro Val Gln Glu Ala
 465 470 475 480
 Trp Ala Glu Asp Val Asp Leu Arg Val Asn Phe Ala Met Asn Val Gly
 485 490 495
 Lys Ala Arg Gly Phe Phe Lys Lys Gly Asp Val Val Ile Val Leu Thr
 500 505 510
 Gly Trp Arg Pro Gly Ser Gly Phe Thr Asn Thr Met Arg Val Val Pro
 515 520 525
 Val Pro
 530

<210> 69
 <211> 328
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Reticulocalbin 3 precursor
 <222> (1)..(328)
 <223> Accession NO: as of 29 August 2003: Q96D15
 <400> 69

Met	Met	Trp	Arg	Pro	Ser	Val	Leu	Leu	Leu	Leu	Leu	Leu	Leu	Arg	His
1				5					10					15	
Gly	Ala	Gln	Gly	Lys	Pro	Ser	Pro	Asp	Ala	Gly	Pro	His	Gly	Gln	Gly
		20						25					30		
Arg	Val	His	Gln	Ala	Ala	Pro	Leu	Ser	Asp	Ala	Pro	His	Asp	Asp	Ala
		35					40					45			
His	Gly	Asn	Phe	Gln	Tyr	Asp	His	Glu	Ala	Phe	Leu	Gly	Arg	Glu	Val
	50					55					60				
Ala	Lys	Glu	Phe	Asp	Gln	Leu	Thr	Pro	Glu	Glu	Ser	Gln	Ala	Arg	Leu
65					70					75				80	
Gly	Arg	Ile	Val	Asp	Arg	Met	Asp	Arg	Ala	Gly	Asp	Gly	Asp	Gly	Trp
				85					90					95	
Val	Ser	Leu	Ala	Glu	Leu	Arg	Ala	Trp	Ile	Ala	His	Thr	Gln	Gln	Arg
			100						105				110		
His	Ile	Arg	Asp	Ser	Val	Ser	Ala	Ala	Trp	Asp	Thr	Tyr	Asp	Thr	Asp
	115						120					125			
Arg	Asp	Gly	Arg	Val	Gly	Trp	Glu	Glu	Leu	Arg	Asn	Ala	Thr	Tyr	Gly
	130					135					140				
His	Tyr	Ala	Pro	Gly	Glu	Glu	Phe	His	Asp	Val	Glu	Asp	Ala	Glu	Thr
145					150					155				160	
Tyr	Lys	Lys	Met	Leu	Ala	Arg	Asp	Glu	Arg	Arg	Phe	Arg	Val	Ala	Asp
			165						170					175	
Gln	Asp	Gly	Asp	Ser	Met	Ala	Thr	Arg	Glu	Glu	Leu	Thr	Ala	Phe	Leu
		180						185					190		
His	Pro	Glu	Glu	Phe	Pro	His	Met	Arg	Asp	Ile	Val	Ile	Ala	Glu	Thr
	195						200					205			
Leu	Glu	Asp	Leu	Asp	Arg	Asn	Lys	Asp	Gly	Tyr	Val	Gln	Val	Glu	Glu
	210					215					220				
Tyr	Ile	Ala	Asp	Leu	Tyr	Ser	Ala	Glu	Pro	Gly	Glu	Glu	Glu	Pro	Ala
225					230					235				240	
Trp	Val	Gln	Thr	Glu	Arg	Gln	Gln	Phe	Arg	Asp	Phe	Arg	Asp	Leu	Asn
			245						250					255	
Lys	Asp	Gly	His	Leu	Asp	Gly	Ser	Glu	Val	Gly	His	Trp	Val	Leu	Pro
		260						265					270		
Pro	Ala	Gln	Asp	Gln	Pro	Leu	Val	Glu	Ala	Asn	His	Leu	Leu	His	Glu
	275						280					285			
Ser	Asp	Thr	Asp	Lys	Asp	Gly	Arg	Leu	Ser	Lys	Ala	Glu	Ile	Leu	Gly
	290					295					300				
Asn	Trp	Asn	Met	Phe	Val	Gly	Ser	Gln	Ala	Thr	Asn	Tyr	Gly	Glu	Asp
305				310						315				320	
Leu	Thr	Arg	His	His	Asp	Glu	Leu								

<210> 70
 <211> 469
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Desmin
 <222> (1)..(469)
 <223> Accession NO: as of 29 August 2003: P17661
 <400> 70

Ser	Gln	Ala	Tyr	Ser	Ser	Ser	Gln	Arg	Val	Ser	Ser	Tyr	Arg	Arg	Thr
1				5					10					15	
Phe	Gly	Gly	Ala	Pro	Gly	Phe	Pro	Leu	Gly	Ser	Pro	Leu	Ser	Ser	Pro
			20					25					30		
Val	Phe	Pro	Arg	Ala	Gly	Phe	Gly	Ser	Lys	Gly	Ser	Ser	Ser	Ser	Val
		35					40					45			
Thr	Ser	Arg	Val	Tyr	Gln	Val	Ser	Arg	Thr	Ser	Gly	Gly	Ala	Gly	Gly
	50					55					60				
Leu	Gly	Ser	Leu	Arg	Ala	Ser	Arg	Leu	Gly	Thr	Thr	Arg	Thr	Pro	Ser
65				70					75					80	
Ser	Tyr	Gly	Ala	Gly	Glu	Leu	Leu	Asp	Phe	Ser	Leu	Ala	Asp	Ala	Val
				85				90					95		
Asn	Gln	Glu	Phe	Leu	Thr	Thr	Arg	Thr	Asn	Glu	Lys	Val	Glu	Leu	Gln
			100					105					110		
Glu	Leu	Asn	Asp	Arg	Phe	Ala	Asn	Tyr	Ile	Glu	Lys	Val	Arg	Phe	Leu
	115						120					125			
Glu	Gln	Gln	Asn	Ala	Ala	Leu	Ala	Ala	Glu	Val	Asn	Arg	Leu	Lys	Gly
	130					135					140				
Arg	Glu	Pro	Thr	Arg	Val	Ala	Glu	Leu	Tyr	Glu	Glu	Glu	Leu	Arg	Glu
145				150					155					160	
Leu	Arg	Arg	Gln	Val	Glu	Val	Leu	Thr	Asn	Gln	Arg	Ala	Arg	Val	Asp
				165				170					175		
Val	Glu	Arg	Asp	Asn	Leu	Leu	Asp	Asp	Leu	Gln	Arg	Leu	Lys	Ala	Lys
			180				185					190			
Leu	Gln	Glu	Glu	Ile	Gln	Leu	Lys	Glu	Glu	Ala	Glu	Asn	Asn	Leu	Ala
	195						200					205			
Ala	Phe	Arg	Ala	Asp	Val	Asp	Ala	Ala	Thr	Leu	Ala	Arg	Ile	Asp	Leu
	210						215					220			

<223> Accession NO: as of 29 August 2003: P15086

<400> 71

Met Leu Ala Leu Leu Val Leu Val Thr Val Ala Leu Ala Ser Ala His
1 5 10 15
His Gly Gly Glu His Phe Glu Gly Glu Lys Val Phe Arg Val Asn Val
20 25 30
Glu Asp Glu Asn His Ile Asn Ile Ile Arg Glu Leu Ala Ser Thr Thr
35 40 45
Gln Ile Asp Phe Trp Lys Pro Asp Ser Val Thr Gln Ile Lys Pro His
50 55 60
Ser Thr Val Asp Phe Arg Val Lys Ala Glu Asp Thr Val Thr Val Glu
65 70 75 80
Asn Val Leu Lys Gln Asn Glu Leu Gln Tyr Lys Val Leu Ile Ser Asn
85 90 95
Leu Arg Asn Val Val Glu Ala Gln Phe Asp Ser Arg Val Arg Ala Thr
100 105 110
Gly His Ser Tyr Glu Lys Tyr Asn Lys Trp Glu Thr Ile Glu Ala Trp
115 120 125
Thr Gln Gln Val Ala Thr Glu Asn Pro Ala Leu Ile Ser Arg Ser Val
130 135 140
Ile Gly Thr Thr Phe Glu Gly Arg Ala Ile Tyr Leu Leu Lys Val Gly
145 150 155 160
Lys Ala Gly Gln Asn Lys Pro Ala Ile Phe Met Asp Cys Gly Phe His
165 170 175
Ala Arg Glu Trp Ile Ser Pro Ala Phe Cys Gln Trp Phe Val Arg Glu
180 185 190
Ala Val Arg Thr Tyr Gly Arg Glu Ile Gln Val Thr Glu Leu Leu Asp
195 200 205
Lys Leu Asp Phe Tyr Val Leu Pro Val Leu Asn Ile Asp Gly Tyr Ile
210 215 220
Tyr Thr Trp Thr Lys Ser Arg Phe Trp Arg Lys Thr Arg Ser Thr His
225 230 235 240
Thr Gly Ser Ser Cys Ile Gly Thr Asp Pro Asn Arg Asn Phe Asp Ala
245 250 255
Gly Trp Cys Glu Ile Gly Ala Ser Arg Asn Pro Cys Asp Glu Thr Tyr
260 265 270
Cys Gly Pro Ala Ala Glu Ser Glu Lys Glu Thr Lys Ala Leu Ala Asp
275 280 285
Phe Ile Arg Asn Lys Leu Ser Ser Ile Lys Ala Tyr Leu Thr Ile His
290 295 300

Ser Tyr Ser Gln Met Met Ile Tyr Pro Tyr Ser Tyr Ala Tyr Lys Leu
 305 310 315 320
 Gly Glu Asn Asn Ala Glu Leu Asn Ala Leu Ala Lys Ala Thr Val Lys
 325 330 335
 Glu Leu Ala Ser Leu His Gly Thr Lys Tyr Thr Tyr Gly Pro Gly Ala
 340 345 350
 Thr Thr Ile Tyr Pro Ala Ala Gly Gly Ser Asp Asp Trp Ala Tyr Asp
 355 360 365
 Gln Gly Ile Arg Tyr Ser Phe Thr Phe Glu Leu Arg Asp Thr Gly Arg
 370 375 380
 Tyr Gly Phe Leu Leu Pro Glu Ser Gln Ile Arg Ala Thr Cys Glu Glu
 385 390 395 400
 Thr Phe Leu Ala Ile Lys Tyr Val Ala Ser Tyr Val Leu Glu His Leu
 405 410 415
 Tyr

<210> 72
 <211> 419
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Carboxypeptidase A1 precursor
 <222> (1)..(419)
 <223> Accession NO: as of 29 August 2003: P15085
 <400> 72

Met Arg Gly Leu Leu Val Leu Ser Val Leu Leu Gly Ala Val Phe Gly
 1 5 10 15
 Lys Glu Asp Phe Val Gly His Gln Val Leu Arg Ile Ser Val Ala Asp
 20 25 30
 Glu Ala Gln Val Gln Lys Val Lys Glu Leu Glu Asp Leu Glu His Leu
 35 40 45
 Gln Leu Asp Phe Trp Arg Gly Pro Ala His Pro Gly Ser Pro Ile Asp
 50 55 60
 Val Arg Val Pro Phe Pro Ser Ile Gln Ala Val Lys Ile Phe Leu Glu
 65 70 75 80
 Ser His Gly Ile Ser Tyr Glu Thr Met Ile Glu Asp Val Gln Ser Leu
 85 90 95
 Leu Asp Glu Glu Gln Glu Gln Met Phe Ala Phe Arg Ser Arg Ala Arg

<210> 73
 <211> 418
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Colligin 2
 <222> (1)..(418)
 <223> Accession NO: as of 29 August 2003: P50454
 <400> 73

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Met Arg Ser Leu Leu Leu Leu Ser Ala Phe Cys Leu Leu Glu Ala Ala
1              5              10              15
Leu Ala Ala Glu Val Lys Lys Pro Ala Ala Ala Ala Pro Gly Thr
              20              25              30
Ala Glu Lys Leu Ser Pro Lys Ala Ala Thr Leu Ala Glu Arg Ser Ala
              35              40              45
Gly Leu Ala Phe Ser Leu Tyr Gln Ala Met Ala Lys Asp Gln Ala Val
              50              55              60
Glu Asn Ile Leu Val Ser Pro Val Val Val Ala Ser Ser Leu Gly Leu
65              70              75              80
Val Ser Leu Gly Gly Lys Ala Thr Thr Ala Ser Gln Ala Lys Ala Val
              85              90              95
Leu Ser Ala Glu Gln Leu Arg Asp Glu Glu Val His Ala Gly Leu Gly
              100             105             110
Glu Leu Leu Arg Ser Leu Ser Asn Ser Thr Ala Arg Asn Val Thr Trp
              115             120             125
Lys Leu Gly Ser Arg Leu Tyr Gly Pro Ser Ser Val Ser Phe Ala Asp
              130             135             140
Asp Phe Val Arg Ser Ser Lys Gln His Tyr Asn Cys Glu His Ser Lys
145             150             155             160
Ile Asn Phe Arg Asp Lys Arg Ser Ala Leu Gln Ser Ile Asn Glu Trp
              165             170             175
Ala Ala Gln Thr Thr Asp Gly Lys Leu Pro Glu Val Thr Lys Asp Val
              180             185             190
Glu Arg Thr Asp Gly Ala Leu Leu Val Asn Ala Met Phe Phe Lys Pro
              195             200             205
His Trp Asp Glu Lys Phe His His Lys Met Val Asp Asn Arg Gly Phe
              210             215             220
Met Val Thr Arg Ser Tyr Thr Val Gly Val Met Met Met His Arg Thr
  
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225		230		235		240									
Gly	Leu	Tyr	Asn	Tyr	Tyr	Asp	Asp	Glu	Lys	Glu	Lys	Leu	Gln	Ile	Val
		245		250		255									
Glu	Met	Pro	Leu	Ala	His	Lys	Leu	Ser	Ser	Leu	Ile	Ile	Leu	Met	Pro
		260		265		270									
His	His	Val	Glu	Pro	Leu	Glu	Arg	Leu	Glu	Lys	Leu	Leu	Thr	Lys	Glu
		275		280		285									
Gln	Leu	Lys	Ile	Trp	Met	Gly	Lys	Met	Gln	Lys	Lys	Ala	Val	Ala	Ile
	290			295		300									
Ser	Leu	Pro	Lys	Gly	Val	Val	Glu	Val	Thr	His	Asp	Leu	Gln	Lys	His
305				310		315									320
Leu	Ala	Gly	Leu	Gly	Leu	Thr	Glu	Ala	Ile	Asp	Lys	Asn	Lys	Ala	Asp
		325		330		335									
Leu	Ser	Arg	Met	Ser	Gly	Lys	Lys	Asp	Leu	Tyr	Leu	Ala	Ser	Val	Phe
		340		345		350									
His	Ala	Thr	Ala	Phe	Glu	Leu	Asp	Thr	Asp	Gly	Asn	Pro	Phe	Asp	Gln
		355		360		365									
Asp	Ile	Tyr	Gly	Arg	Glu	Glu	Leu	Arg	Ser	Pro	Lys	Leu	Phe	Tyr	Ala
	370			375		380									
Asp	His	Pro	Phe	Ile	Phe	Leu	Val	Arg	Asp	Thr	Gln	Ser	Gly	Ser	Leu
385				390		395									400
Leu	Phe	Ile	Gly	Arg	Leu	Val	Arg	Pro	Lys	Gly	Asp	Lys	Met	Arg	Asp
		405		410		415									

Glu Leu

<210> 74
 <211> 263
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Chymotrypsinogen B precursor
 <222> (1)..(263)
 <223> Accession NO: as of 29 August 2003: P17538
 <400> 74

Met	Ala	Phe	Leu	Trp	Leu	Leu	Ser	Cys	Trp	Ala	Leu	Leu	Gly	Thr	Thr
1			5				10						15		
Phe	Gly	Cys	Gly	Val	Pro	Ala	Ile	His	Pro	Val	Leu	Ser	Gly	Leu	Ser
			20				25						30		

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Arg Ile Val Asn Gly Glu Asp Ala Val Pro Gly Ser Trp Pro Trp Gln
    35                      40                      45
Val Ser Leu Gln Asp Lys Thr Gly Phe His Phe Cys Gly Gly Ser Leu
    50                      55                      60
Ile Ser Glu Asp Trp Val Val Thr Ala Ala His Cys Gly Val Arg Thr
    65                      70                      75                      80
Ser Asp Val Val Val Ala Gly Glu Phe Asp Gln Gly Ser Asp Glu Glu
                      85                      90                      95
Asn Ile Gln Val Leu Lys Ile Ala Lys Val Phe Lys Asn Pro Lys Phe
    100                      105                      110
Ser Ile Leu Thr Val Asn Asn Asp Ile Thr Leu Leu Lys Leu Ala Thr
    115                      120                      125
Pro Ala Arg Phe Ser Gln Thr Val Ser Ala Val Cys Leu Pro Ser Ala
    130                      135                      140
Asp Asp Asp Phe Pro Ala Gly Thr Leu Cys Ala Thr Thr Gly Trp Gly
    145                      150                      155                      160
Lys Thr Lys Tyr Asn Ala Asn Lys Thr Pro Asp Lys Leu Gln Gln Ala
                      165                      170                      175
Ala Leu Pro Leu Leu Ser Asn Ala Glu Cys Lys Lys Ser Trp Gly Arg
    180                      185                      190
Arg Ile Thr Asp Val Met Ile Cys Ala Gly Ala Ser Gly Val Ser Ser
    195                      200                      205
Cys Met Gly Asp Ser Gly Gly Pro Leu Val Cys Gln Lys Asp Gly Ala
    210                      215                      220
Trp Thr Leu Val Gly Ile Val Ser Trp Gly Ser Asp Thr Cys Ser Thr
    225                      230                      235                      240
Ser Ser Pro Gly Val Tyr Ala Arg Val Thr Lys Leu Ile Pro Trp Val
                      245                      250                      255
Gln Lys Ile Leu Ala Ala Asn
    260

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<210> 75
<211> 247
<212> PRT
<213> Homo sapiens
<220>
<221> Trypsin I precursor
<222> (1)..(247)
<223> Accession NO: as of 29 August 2003: P07477
<400> 75

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Met	Asn	Pro	Leu	Leu	Ile	Leu	Thr	Phe	Val	Ala	Ala	Ala	Leu	Ala	Ala		
1				5					10					15			
Pro	Phe	Asp	Asp	Asp	Asp	Lys	Ile	Val	Gly	Gly	Tyr	Asn	Cys	Glu	Glu		
			20					25					30				
Asn	Ser	Val	Pro	Tyr	Gln	Val	Ser	Leu	Asn	Ser	Gly	Tyr	His	Phe	Cys		
		35					40					45					
Gly	Gly	Ser	Leu	Ile	Asn	Glu	Gln	Trp	Val	Val	Ser	Ala	Gly	His	Cys		
	50					55					60						
Tyr	Lys	Ser	Arg	Ile	Gln	Val	Arg	Leu	Gly	Glu	His	Asn	Ile	Glu	Val		
65				70					75					80			
Leu	Glu	Gly	Asn	Glu	Gln	Phe	Ile	Asn	Ala	Ala	Lys	Ile	Ile	Arg	His		
			85					90					95				
Pro	Gln	Tyr	Asp	Arg	Lys	Thr	Leu	Asn	Asn	Asp	Ile	Met	Leu	Ile	Lys		
		100					105						110				
Leu	Ser	Ser	Arg	Ala	Val	Ile	Asn	Ala	Arg	Val	Ser	Thr	Ile	Ser	Leu		
	115					120					125						
Pro	Thr	Ala	Pro	Pro	Ala	Thr	Gly	Thr	Lys	Cys	Leu	Ile	Ser	Gly	Trp		
	130				135					140							
Gly	Asn	Thr	Ala	Ser	Ser	Gly	Ala	Asp	Tyr	Pro	Asp	Glu	Leu	Gln	Cys		
145				150				155					160				
Leu	Asp	Ala	Pro	Val	Leu	Ser	Gln	Ala	Lys	Cys	Glu	Ala	Ser	Tyr	Pro		
			165					170					175				
Gly	Lys	Ile	Thr	Ser	Asn	Met	Phe	Cys	Val	Gly	Phe	Leu	Glu	Gly	Gly		
		180				185					190						
Lys	Asp	Ser	Cys	Gln	Gly	Asp	Ser	Gly	Gly	Pro	Val	Val	Cys	Asn	Gly		
	195					200					205						
Gln	Leu	Gln	Gly	Val	Val	Ser	Trp	Gly	Asp	Gly	Cys	Ala	Gln	Lys	Asn		
	210				215					220							
Lys	Pro	Gly	Val	Tyr	Thr	Lys	Val	Tyr	Asn	Tyr	Val	Lys	Trp	Ile	Lys		
225				230				235					240				
Asn	Thr	Ile	Ala	Ala	Asn	Ser											
				245													

<210> 76
 <211> 247
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Trypsin II precursor

<222> (1)..(247)

<223> Accession NO: as of 29 August 2003: P07478

<400> 76

Met Asn Leu Leu Leu Ile Leu Thr Phe Val Ala Ala Ala Val Ala Ala
1 5 10 15
Pro Phe Asp Asp Asp Asp Lys Ile Val Gly Gly Tyr Ile Cys Glu Glu
20 25 30
Asn Ser Val Pro Tyr Gln Val Ser Leu Asn Ser Gly Tyr His Phe Cys
35 40 45
Gly Gly Ser Leu Ile Ser Glu Gln Trp Val Val Ser Ala Gly His Cys
50 55 60
Tyr Lys Ser Arg Ile Gln Val Arg Leu Gly Glu His Asn Ile Glu Val
65 70 75 80
Leu Glu Gly Asn Glu Gln Phe Ile Asn Ala Ala Lys Ile Ile Arg His
85 90 95
Pro Lys Tyr Asn Ser Arg Thr Leu Asp Asn Asp Ile Leu Leu Ile Lys
100 105 110
Leu Ser Ser Pro Ala Val Ile Asn Ser Arg Val Ser Ala Ile Ser Leu
115 120 125
Pro Thr Ala Pro Pro Ala Ala Gly Thr Glu Ser Leu Ile Ser Gly Trp
130 135 140
Gly Asn Thr Leu Ser Ser Gly Ala Asp Tyr Pro Asp Glu Leu Gln Cys
145 150 155 160
Leu Asp Ala Pro Val Leu Ser Gln Ala Glu Cys Glu Ala Ser Tyr Pro
165 170 175
Gly Lys Ile Thr Asn Asn Met Phe Cys Val Gly Phe Leu Glu Gly Gly
180 185 190
Lys Asp Ser Cys Gln Gly Asp Ser Gly Gly Pro Val Val Ser Asn Gly
195 200 205
Glu Leu Gln Gly Ile Val Ser Trp Gly Tyr Gly Cys Ala Gln Lys Asn
210 215 220
Arg Pro Gly Val Tyr Thr Lys Val Tyr Asn Tyr Val Asp Trp Ile Lys
225 230 235 240
Asp Thr Ile Ala Ala Asn Ser
245

<210> 77

<211> 379

<212> PRT

<213> Homo sapiens
 <220>
 <221> Leukocyte elastase inhibitor (LEI)
 <222> (1)..(379)
 <223> Accession NO: as of 29 August 2003: P30740
 <400> 77

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Met Glu Gln Leu Ser Ser Ala Asn Thr Arg Phe Ala Leu Asp Leu Phe
1           5           10           15
Leu Ala Leu Ser Glu Asn Asn Pro Ala Gly Asn Ile Phe Ile Ser Pro
          20           25           30
Phe Ser Ile Ser Ser Ala Met Ala Met Val Phe Leu Gly Thr Arg Gly
          35           40           45
Asn Thr Ala Ala Gln Leu Ser Lys Thr Phe His Phe Asn Thr Val Glu
          50           55           60
Glu Val His Ser Arg Phe Gln Ser Leu Asn Ala Asp Ile Asn Lys Arg
65           70           75           80
Gly Ala Ser Tyr Ile Leu Lys Leu Ala Asn Arg Leu Tyr Gly Glu Lys
          85           90           95
Thr Tyr Asn Phe Leu Pro Glu Phe Leu Val Ser Thr Gln Lys Thr Tyr
          100          105          110
Gly Ala Asp Leu Ala Ser Val Asp Phe Gln His Ala Ser Glu Asp Ala
          115          120          125
Arg Lys Thr Ile Asn Gln Trp Val Lys Gly Gln Thr Glu Gly Lys Ile
          130          135          140
Pro Glu Leu Leu Ala Ser Gly Met Val Asp Asn Met Thr Lys Leu Val
145           150           155           160
Leu Val Asn Ala Ile Tyr Phe Lys Gly Asn Trp Lys Asp Lys Phe Met
          165          170          175
Lys Glu Ala Thr Thr Asn Ala Pro Phe Arg Leu Asn Lys Lys Asp Arg
          180          185          190
Lys Thr Val Lys Met Met Tyr Gln Lys Lys Lys Phe Ala Tyr Gly Tyr
          195          200          205
Ile Glu Asp Leu Lys Cys Arg Val Leu Glu Leu Pro Tyr Gln Gly Glu
          210          215          220
Glu Leu Ser Met Val Ile Leu Leu Pro Asp Asp Ile Glu Asp Glu Ser
225           230           235           240
Thr Gly Leu Lys Lys Ile Glu Glu Gln Leu Thr Leu Glu Lys Leu His
          245          250          255
Glu Trp Thr Lys Pro Glu Asn Leu Asp Phe Ile Glu Val Asn Val Ser
          260          265          270

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Leu Pro Arg Phe Lys Leu Glu Glu Ser Tyr Thr Leu Asn Ser Asp Leu
 275 280 285
 Ala Arg Leu Gly Val Gln Asp Leu Phe Asn Ser Ser Lys Ala Asp Leu
 290 295 300
 Ser Gly Met Ser Gly Ala Arg Asp Ile Phe Ile Ser Lys Ile Val His
 305 310 315 320
 Lys Ser Phe Val Glu Val Asn Glu Glu Gly Thr Glu Ala Ala Ala Ala
 325 330 335
 Thr Ala Gly Ile Ala Thr Phe Cys Met Leu Met Pro Glu Glu Asn Phe
 340 345 350
 Thr Ala Asp His Pro Phe Leu Phe Phe Ile Arg His Asn Ser Ser Gly
 355 360 365
 Ser Ile Leu Phe Leu Gly Arg Phe Ser Ser Pro
 325 375

<210> 78
 <211> 573
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Hsp60
 <222> (1)..(573)
 <223> Accession NO: as of 29 August 2003: P10809
 <400> 78

Met Leu Arg Leu Pro Thr Val Phe Arg Gln Met Arg Pro Val Ser Arg
 1 5 10 15
 Val Leu Ala Pro His Leu Thr Arg Ala Tyr Ala Lys Asp Val Lys Phe
 20 25 30
 Gly Ala Asp Ala Arg Ala Leu Met Leu Gln Gly Val Asp Leu Leu Ala
 35 40 45
 Asp Ala Val Ala Val Thr Met Gly Pro Lys Gly Arg Thr Val Ile Ile
 50 55 60
 Glu Gln Ser Trp Gly Ser Pro Lys Val Thr Lys Asp Gly Val Thr Val
 65 70 75 80
 Ala Lys Ser Ile Asp Leu Lys Asp Lys Tyr Lys Asn Ile Gly Ala Lys
 85 90 95
 Leu Val Gln Asp Val Ala Asn Asn Thr Asn Glu Glu Ala Gly Asp Gly
 100 105 110
 Thr Thr Thr Ala Thr Val Leu Ala Arg Ser Ile Ala Lys Glu Gly Phe

115	120	125
Glu Lys Ile Ser Lys Gly Ala Asn Pro Val Glu Ile Arg Arg Gly Val		
130	135	140
Met Leu Ala Val Asp Ala Val Ile Ala Glu Leu Lys Lys Gln Ser Lys		
145	150	155
Pro Val Thr Thr Pro Glu Glu Ile Ala Gln Val Ala Thr Ile Ser Ala		
165	170	175
Asn Gly Asp Lys Glu Ile Gly Asn Ile Ile Ser Asp Ala Met Lys Lys		
180	185	190
Val Gly Arg Lys Gly Val Ile Thr Val Lys Asp Gly Lys Thr Leu Asn		
195	200	205
Asp Glu Leu Glu Ile Ile Glu Gly Met Lys Phe Asp Arg Gly Tyr Ile		
210	215	220
Ser Pro Tyr Phe Ile Asn Thr Ser Lys Gly Gln Lys Cys Glu Phe Gln		
225	230	235
Asp Ala Tyr Val Leu Leu Ser Glu Lys Lys Ile Ser Ser Ile Gln Ser		
245	250	255
Ile Val Pro Ala Leu Glu Ile Ala Asn Ala His Arg Lys Pro Leu Val		
260	265	270
Ile Ile Ala Glu Asp Val Asp Gly Glu Ala Leu Ser Thr Leu Val Leu		
275	280	285
Asn Arg Leu Lys Val Gly Leu Gln Val Val Ala Val Lys Ala Pro Gly		
290	295	300
Phe Gly Asp Asn Arg Lys Asn Gln Leu Lys Asp Met Ala Ile Ala Thr		
305	310	315
Gly Gly Ala Val Phe Gly Glu Glu Gly Leu Thr Leu Asn Leu Glu Asp		
325	330	335
Val Gln Pro His Asp Leu Gly Lys Val Gly Glu Val Ile Val Thr Lys		
340	345	350
Asp Asp Ala Met Leu Leu Lys Gly Lys Gly Asp Lys Ala Gln Ile Glu		
355	360	365
Lys Arg Ile Gln Glu Ile Ile Glu Gln Leu Asp Val Thr Thr Ser Glu		
370	375	380
Tyr Glu Lys Glu Lys Leu Asn Glu Arg Leu Ala Lys Leu Ser Asp Gly		
385	390	395
Val Ala Val Leu Lys Val Gly Gly Thr Ser Asp Val Glu Val Asn Glu		
405	410	415
Lys Lys Asp Arg Val Thr Asp Ala Leu Asn Ala Thr Arg Ala Ala Val		
420	425	430
Glu Glu Gly Ile Val Leu Gly Gly Gly Cys Ala Leu Leu Arg Cys Ile		
435	440	445

Pro Ala Leu Asp Ser Leu Thr Pro Ala Asn Glu Asp Gln Lys Ile Gly
 450 455 460
 Ile Glu Ile Ile Lys Arg Thr Leu Lys Ile Pro Ala Met Thr Ile Ala
 465 470 475 480
 Lys Asn Ala Gly Val Glu Gly Ser Leu Ile Val Glu Lys Ile Met Gln
 485 490 495
 Ser Ser Ser Glu Val Gly Tyr Asp Ala Met Ala Gly Asp Phe Val Asn
 500 505 510
 Met Val Glu Lys Gly Ile Ile Asp Pro Thr Lys Val Val Arg Thr Ala
 515 520 525
 Leu Leu Asp Ala Ala Gly Val Ala Ser Leu Leu Thr Thr Ala Glu Val
 530 535 540
 Val Val Thr Glu Ile Pro Lys Glu Glu Lys Asp Pro Gly Met Gly Ala
 545 550 555 560
 Met Gly Gly Met Gly Gly Gly Met Gly Gly Gly Met Phe
 325 570

<210> 79
 <211> 803
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Endoplasmin precursor (GRP94)
 <222> (1)..(803)
 <223> Accession NO: as of 29 August 2003: P14625
 <400> 79

Met Arg Ala Leu Trp Val Leu Gly Leu Cys Cys Val Leu Leu Thr Phe
 1 5 10 15
 Gly Ser Val Arg Ala Asp Asp Glu Val Asp Val Asp Gly Thr Val Glu
 20 25 30
 Glu Asp Leu Gly Lys Ser Arg Glu Gly Ser Arg Thr Asp Asp Glu Val
 35 40 45
 Val Gln Arg Glu Glu Glu Ala Ile Gln Leu Asp Gly Leu Asn Ala Ser
 50 55 60
 Gln Ile Arg Glu Leu Arg Glu Lys Ser Glu Lys Phe Ala Phe Gln Ala
 65 70 75 80
 Glu Val Asn Arg Met Met Lys Leu Ile Ile Asn Ser Leu Tyr Lys Asn
 85 90 95
 Lys Glu Ile Phe Leu Arg Glu Leu Ile Ser Asn Ala Ser Asp Ala Leu

100					105					110						
Asp	Lys	Ile	Arg	Leu	Ile	Ser	Leu	Thr	Asp	Glu	Asn	Ala	Leu	Ser	Gly	
115					120					125						
Asn	Glu	Glu	Leu	Thr	Val	Lys	Ile	Lys	Cys	Asp	Lys	Glu	Lys	Asn	Leu	
130					135					140						
Leu	His	Val	Thr	Asp	Thr	Gly	Val	Gly	Met	Thr	Arg	Glu	Glu	Leu	Val	
145					150					155					160	
Lys	Asn	Leu	Gly	Thr	Ile	Ala	Lys	Ser	Gly	Thr	Ser	Glu	Phe	Leu	Asn	
165					170					175						
Lys	Met	Thr	Glu	Ala	Gln	Glu	Asp	Gly	Gln	Ser	Thr	Ser	Glu	Leu	Ile	
180					185					190						
Gly	Gln	Phe	Gly	Val	Gly	Phe	Tyr	Ser	Ala	Phe	Leu	Val	Ala	Asp	Lys	
195					200					205						
Val	Ile	Val	Thr	Ser	Lys	His	Asn	Asn	Asp	Thr	Gln	His	Ile	Trp	Glu	
210					215					220						
Ser	Asp	Ser	Asn	Glu	Phe	Ser	Val	Ile	Ala	Asp	Pro	Arg	Gly	Asn	Thr	
225					230					235					240	
Leu	Gly	Arg	Gly	Thr	Thr	Ile	Thr	Leu	Val	Leu	Lys	Glu	Glu	Ala	Ser	
245					250					255						
Asp	Tyr	Leu	Glu	Leu	Asp	Thr	Ile	Lys	Asn	Leu	Val	Lys	Lys	Tyr	Ser	
260					265					270						
Gln	Phe	Ile	Asn	Phe	Pro	Ile	Tyr	Val	Trp	Ser	Ser	Lys	Thr	Glu	Thr	
275					280					285						
Val	Glu	Glu	Pro	Met	Glu	Glu	Glu	Glu	Ala	Ala	Lys	Glu	Glu	Lys	Glu	
290					295					300						
Glu	Ser	Asp	Asp	Glu	Ala	Ala	Val	Glu	Glu	Glu	Glu	Glu	Glu	Lys	Lys	
305					310					315					320	
Pro	Lys	Thr	Lys	Lys	Val	Glu	Lys	Thr	Val	Trp	Asp	Trp	Glu	Leu	Met	
325					330					335						
Asn	Asp	Ile	Lys	Pro	Ile	Trp	Gln	Arg	Pro	Ser	Lys	Glu	Val	Glu	Glu	
340					345					350						
Asp	Glu	Tyr	Lys	Ala	Phe	Tyr	Lys	Ser	Phe	Ser	Lys	Glu	Ser	Asp	Asp	
355					360					365						
Pro	Met	Ala	Tyr	Ile	His	Phe	Thr	Ala	Glu	Gly	Glu	Val	Thr	Phe	Lys	
370					375					380						
Ser	Ile	Leu	Phe	Val	Pro	Thr	Ser	Ala	Pro	Arg	Gly	Leu	Phe	Asp	Glu	
385					390					395					400	
Tyr	Gly	Ser	Lys	Lys	Ser	Asp	Tyr	Ile	Lys	Leu	Tyr	Val	Arg	Arg	Val	
405					410					415						
Phe	Ile	Thr	Asp	Asp	Phe	His	Asp	Met	Met	Pro	Lys	Tyr	Leu	Asn	Phe	
420					425					430						

Val Lys Gly Val Val Asp Ser Asp Asp Leu Pro Leu Asn Val Ser Arg
435 440 445
Glu Thr Leu Gln Gln His Lys Leu Leu Lys Val Ile Arg Lys Lys Leu
450 455 460
Val Arg Lys Thr Leu Asp Met Ile Lys Lys Ile Ala Asp Asp Lys Tyr
465 470 475 480
Asn Asp Thr Phe Trp Lys Glu Phe Gly Thr Asn Ile Lys Leu Gly Val
485 490 495
Ile Glu Asp His Ser Asn Arg Thr Arg Leu Ala Lys Leu Leu Arg Phe
500 505 510
Gln Ser Ser His His Pro Thr Asp Ile Thr Ser Leu Asp Gln Tyr Val
515 520 525
Glu Arg Met Lys Glu Lys Gln Asp Lys Ile Tyr Phe Met Ala Gly Ser
530 535 540
Ser Arg Lys Glu Ala Glu Ser Ser Pro Phe Val Glu Arg Leu Leu Lys
545 550 555 560
Lys Gly Tyr Glu Val Ile Tyr Leu Thr Glu Pro Val Asp Glu Tyr Cys
565 570 575
Ile Gln Ala Leu Pro Glu Phe Asp Gly Lys Arg Phe Gln Asn Val Ala
580 585 590
Lys Glu Gly Val Lys Phe Asp Glu Ser Glu Lys Thr Lys Glu Ser Arg
595 600 605
Glu Ala Val Glu Lys Glu Phe Glu Pro Leu Leu Asn Trp Met Lys Asp
610 615 620
Lys Ala Leu Lys Asp Lys Ile Glu Lys Ala Val Val Ser Gln Arg Leu
625 630 635 640
Thr Glu Ser Pro Cys Ala Leu Val Ala Ser Gln Tyr Gly Trp Ser Gly
645 650 655
Asn Met Glu Arg Ile Met Lys Ala Gln Ala Tyr Gln Thr Gly Lys Asp
660 665 670
Ile Ser Thr Asn Tyr Tyr Ala Ser Gln Lys Lys Thr Phe Glu Ile Asn
675 680 685
Pro Arg His Pro Leu Ile Arg Asp Met Leu Arg Arg Ile Lys Glu Asp
690 695 700
Glu Asp Asp Lys Thr Val Leu Asp Leu Ala Val Val Leu Phe Glu Thr
705 710 715 720
Ala Thr Leu Arg Ser Gly Tyr Leu Leu Pro Asp Thr Lys Ala Tyr Gly
725 730 735
Asp Arg Ile Glu Arg Met Leu Arg Leu Ser Leu Asn Ile Asp Pro Asp
740 745 750
Ala Lys Val Glu Glu Glu Pro Glu Glu Glu Pro Glu Glu Thr Ala Glu

755 760 765
 Asp Thr Thr Glu Asp Thr Glu Gln Asp Glu Asp Glu Glu Met Asp Val
 770 775 780
 Gly Thr Asp Glu Glu Glu Glu Thr Ala Lys Glu Ser Thr Ala Glu Lys
 785 790 795 800
 Asp Glu Leu

<210> 80
 <211> 261
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Endoplasmic reticulum protein Erp29 precursor (Erp31) (Erp28)
 <222> (1)..(261)
 <223> Accession NO: as of 29 August 2003: P30040
 <400> 80

Met Ala Ala Ala Val Pro Arg Ala Ala Phe Leu Ser Pro Leu Leu Pro
 1 5 10 15
 Leu Leu Leu Gly Phe Leu Leu Leu Ser Ala Pro His Gly Gly Ser Gly
 20 25 30
 Leu His Thr Lys Gly Ala Leu Pro Leu Asp Thr Val Thr Phe Tyr Lys
 35 40 45
 Val Ile Pro Lys Ser Lys Phe Val Leu Val Lys Phe Asp Thr Gln Tyr
 50 55 60
 Pro Tyr Gly Glu Lys Gln Asp Glu Phe Lys Arg Leu Ala Glu Asn Ser
 65 70 75 80
 Ala Ser Ser Asp Asp Leu Leu Val Ala Glu Val Gly Ile Ser Asp Tyr
 85 90 95
 Gly Asp Lys Leu Asn Met Glu Leu Ser Glu Lys Tyr Lys Leu Asp Lys
 100 105 110
 Glu Ser Tyr Pro Val Phe Tyr Leu Phe Arg Asp Gly Asp Phe Glu Asn
 115 120 125
 Pro Val Pro Tyr Thr Gly Ala Val Lys Val Gly Ala Ile Gln Arg Trp
 130 135 140
 Leu Lys Gly Gln Gly Val Tyr Leu Gly Met Pro Gly Cys Leu Pro Val
 145 150 155 160
 Tyr Asp Ala Leu Ala Gly Glu Phe Ile Arg Ala Ser Gly Val Glu Ala
 165 170 175

Arg Gln Ala Leu Leu Lys Gln Gly Gln Asp Asn Leu Ser Ser Val Lys
 180 185 190
 Glu Thr Gln Lys Lys Trp Ala Glu Gln Tyr Leu Lys Ile Met Gly Lys
 195 200 205
 Ile Leu Asp Gln Gly Glu Asp Phe Pro Ala Ser Glu Met Thr Arg Ile
 210 215 220
 Ala Arg Leu Ile Glu Lys Asn Lys Met Ser Asp Gly Lys Lys Glu Glu
 225 230 235 240
 Leu Gln Lys Ser Leu Asn Ile Leu Thr Ala Phe Gln Lys Lys Gly Ala
 245 250 255
 Glu Lys Glu Glu Leu
 260

<210> 81
 <211> 525
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Protein disulfide isomerase A2 precursor
 <222> (1)..(525)
 <223> Accession NO: as of 29 August 2003: Q13087
 <400> 81

Met Ser Arg Gln Leu Leu Pro Val Leu Leu Leu Leu Leu Leu Arg Ala
 1 5 10 15
 Ser Cys Pro Trp Gly Gln Glu Gln Gly Ala Arg Ser Pro Ser Glu Glu
 20 25 30
 Pro Pro Glu Glu Glu Ile Pro Lys Glu Asp Gly Ile Leu Val Leu Ser
 35 40 45
 Arg His Thr Leu Gly Leu Ala Leu Arg Glu His Pro Ala Leu Leu Val
 50 55 60
 Glu Phe Tyr Ala Pro Trp Cys Gly His Cys Gln Ala Leu Ala Pro Glu
 65 70 75 80
 Tyr Ser Lys Ala Ala Ala Val Leu Ala Ala Glu Ser Met Val Val Thr
 85 90 95
 Leu Ala Lys Val Asp Gly Pro Ala Gln Arg Glu Leu Ala Glu Glu Phe
 100 105 110
 Gly Val Thr Glu Tyr Pro Thr Leu Lys Phe Phe Arg Asn Gly Asn Arg
 115 120 125
 Thr His Pro Glu Glu Tyr Thr Gly Pro Arg Asp Ala Glu Gly Ile Ala

130	135	140
Glu Trp Leu Arg Arg Arg Val Gly Pro Ser Ala Met Arg Leu Glu Asp		
145	150	155
Glu Ala Ala Ala Gln Ala Leu Ile Gly Gly Arg Asp Leu Val Val Ile		160
	165	170
Gly Phe Phe Gln Asp Leu Gln Asp Glu Asp Val Ala Thr Phe Leu Ala		175
	180	185
Leu Ala Gln Asp Ala Leu Asp Met Thr Phe Gly Leu Thr Asp Arg Pro		190
	195	200
Arg Leu Phe Gln Gln Phe Gly Leu Thr Lys Asp Thr Val Val Leu Phe		205
	210	215
Lys Lys Phe Asp Glu Gly Arg Ala Asp Phe Pro Val Asp Glu Glu Leu		220
225	230	235
Gly Leu Asp Leu Gly Asp Leu Ser Arg Phe Leu Val Thr His Ser Met		240
	245	250
Arg Leu Val Thr Glu Phe Asn Ser Gln Thr Ser Ala Lys Ile Phe Ala		255
	260	265
Ala Arg Ile Leu Asn His Leu Leu Leu Phe Val Asn Gln Thr Leu Ala		270
	275	280
Ala His Arg Glu Leu Leu Ala Gly Phe Gly Glu Ala Ala Pro Arg Phe		285
	290	295
Arg Gly Gln Val Leu Phe Val Val Val Asp Val Ala Ala Asp Asn Glu		300
305	310	315
His Val Leu Gln Tyr Phe Gly Leu Lys Ala Glu Ala Ala Pro Thr Leu		320
	325	330
Arg Leu Val Asn Leu Glu Thr Thr Lys Lys Tyr Ala Pro Val Asp Gly		335
	340	345
Gly Pro Val Thr Ala Ala Ser Ile Thr Ala Phe Cys His Ala Val Leu		350
	355	360
Asn Gly Gln Val Lys Pro Tyr Leu Leu Ser Gln Glu Ile Pro Pro Asp		365
	370	375
Trp Asp Gln Arg Pro Val Lys Thr Leu Val Gly Lys Asn Phe Glu Gln		380
385	390	395
Val Ala Phe Asp Glu Thr Lys Asn Val Phe Val Lys Phe Tyr Ala Pro		400
	405	410
Trp Cys Thr His Cys Lys Glu Met Ala Pro Ala Trp Glu Ala Leu Ala		415
	420	425
Glu Lys Tyr Gln Asp His Glu Asp Ile Ile Ile Ala Glu Leu Asp Ala		430
	435	440
Thr Ala Asn Glu Leu Asp Ala Phe Ala Val His Gly Phe Pro Thr Leu		445
	450	460

Lys Tyr Phe Pro Ala Gly Pro Gly Arg Lys Val Ile Glu Tyr Lys Ser
 465 470 475 480
 Thr Arg Asp Leu Glu Thr Phe Ser Lys Phe Leu Asp Asn Gly Gly Val
 485 490 495
 Leu Pro Thr Glu Glu Pro Pro Glu Glu Pro Ala Ala Pro Phe Pro Glu
 500 505 510
 Pro Pro Ala Asn Ser Thr Met Gly Ser Lys Glu Glu Leu
 515 520 525

<210> 82
 <211> 505
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Protein disulfide isomerase A3 precursor
 <222> (1)..(505)
 <223> Accession NO: as of 29 August 2003: P30101
 <400> 82

Met Arg Leu Arg Arg Leu Ala Leu Phe Pro Gly Val Ala Leu Leu Leu
 1 5 10 15
 Ala Ala Ala Arg Leu Ala Ala Ala Ser Asp Val Leu Glu Leu Thr Asp
 20 25 30
 Asp Asn Phe Glu Ser Arg Ile Ser Asp Thr Gly Ser Ala Gly Leu Met
 35 40 45
 Leu Val Glu Phe Phe Ala Pro Trp Cys Gly His Cys Lys Arg Leu Ala
 50 55 60
 Pro Glu Tyr Glu Ala Ala Ala Thr Arg Leu Lys Gly Ile Val Pro Leu
 65 70 75 80
 Ala Lys Val Asp Cys Thr Ala Asn Thr Asn Thr Cys Asn Lys Tyr Gly
 85 90 95
 Val Ser Gly Tyr Pro Thr Leu Lys Ile Phe Arg Asp Gly Glu Glu Ala
 100 105 110
 Gly Ala Tyr Asp Gly Pro Arg Thr Ala Asp Gly Ile Val Ser His Leu
 115 120 125
 Lys Lys Gln Ala Gly Pro Ala Ser Val Pro Leu Arg Thr Glu Glu Glu
 130 135 140
 Phe Lys Lys Phe Ile Ser Asp Lys Asp Ala Ser Ile Val Gly Phe Phe
 145 150 155 160
 Asp Asp Ser Phe Ser Glu Ala His Ser Glu Phe Leu Lys Ala Ala Ser

	165		170		175
Asn Leu Arg Asp Asn Tyr Arg Phe Ala His Thr Asn Val Glu Ser Leu					
	180		185		190
Val Asn Glu Tyr Asp Asp Asn Gly Glu Gly Ile Ile Leu Phe Arg Pro					
	195		200		205
Ser His Leu Thr Asn Lys Phe Glu Asp Lys Thr Val Ala Tyr Thr Glu					
	210		215		220
Gln Lys Met Thr Ser Gly Lys Ile Lys Lys Phe Ile Gln Glu Asn Ile					
225		230		235	240
Phe Gly Ile Cys Pro His Met Thr Glu Asp Asn Lys Asp Leu Ile Gln					
	245		250		255
Gly Lys Asp Leu Leu Ile Ala Tyr Tyr Asp Val Asp Tyr Glu Lys Asn					
	260		265		270
Ala Lys Gly Ser Asn Tyr Trp Arg Asn Arg Val Met Met Val Ala Lys					
	275		280		285
Lys Phe Leu Asp Ala Gly His Lys Leu Asn Phe Ala Val Ala Ser Arg					
	290		295		300
Lys Thr Phe Ser His Glu Leu Ser Asp Phe Gly Leu Glu Ser Thr Ala					
305		310		315	320
Gly Glu Ile Pro Val Val Ala Ile Arg Thr Ala Lys Gly Glu Lys Phe					
	325		330		335
Val Met Gln Glu Glu Phe Ser Arg Asp Gly Lys Ala Leu Glu Arg Phe					
	340		345		350
Leu Gln Asp Tyr Phe Asp Gly Asn Leu Lys Arg Tyr Leu Lys Ser Glu					
	355		360		365
Pro Ile Pro Glu Ser Asn Asp Gly Pro Val Lys Val Val Val Ala Glu					
	370		375		380
Asn Phe Asp Glu Ile Val Asn Asn Glu Asn Lys Asp Val Leu Ile Glu					
385		390		395	400
Phe Tyr Ala Pro Trp Cys Gly His Cys Lys Asn Leu Glu Pro Lys Tyr					
	405		410		415
Lys Glu Leu Gly Glu Lys Leu Ser Lys Asp Pro Asn Ile Val Ile Ala					
	420		425		430
Lys Met Asp Ala Thr Ala Asn Asp Val Pro Ser Pro Tyr Glu Val Arg					
	435		440		445
Gly Phe Pro Thr Ile Tyr Phe Ser Pro Ala Asn Lys Lys Leu Asn Pro					
	450		455		460
Lys Lys Tyr Glu Gly Gly Arg Glu Leu Ser Asp Phe Ile Ser Tyr Leu					
465		470		475	480
Gln Arg Glu Ala Thr Asn Pro Pro Val Ile Gln Glu Glu Lys Pro Lys					
	485		490		495

Lys Lys Lys Lys Ala Gln Glu Asp Leu
 325 505

<210> 83
 <211> 374
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Alcohol dehydrogenase beta chain
 <222> (1)..(374)
 <223> Accession NO: as of 29 August 2003: P00325
 <400> 83

Ser	Thr	Ala	Gly	Lys	Val	Ile	Lys	Cys	Lys	Ala	Ala	Val	Leu	Trp	Glu
1				5					10					15	
Val	Lys	Lys	Pro	Phe	Ser	Ile	Glu	Asp	Val	Glu	Val	Ala	Pro	Pro	Lys
			20					25					30		
Ala	Tyr	Glu	Val	Arg	Ile	Lys	Met	Val	Ala	Val	Gly	Ile	Cys	Arg	Thr
			35				40					45			
Asp	Asp	His	Val	Val	Ser	Gly	Asn	Leu	Val	Thr	Pro	Leu	Pro	Val	Ile
		50				55					60				
Leu	Gly	His	Glu	Ala	Ala	Gly	Ile	Val	Glu	Ser	Val	Gly	Glu	Gly	Val
65					70				75					80	
Thr	Thr	Val	Lys	Pro	Gly	Asp	Lys	Val	Ile	Pro	Leu	Phe	Thr	Pro	Gln
			85					90					95		
Cys	Gly	Lys	Cys	Arg	Val	Cys	Lys	Asn	Pro	Glu	Ser	Asn	Tyr	Cys	Leu
			100					105					110		
Lys	Asn	Asp	Leu	Gly	Asn	Pro	Arg	Gly	Thr	Leu	Gln	Asp	Gly	Thr	Arg
		115					120					125			
Arg	Phe	Thr	Cys	Arg	Gly	Lys	Pro	Ile	His	His	Phe	Leu	Gly	Thr	Ser
		130				135					140				
Thr	Phe	Ser	Gln	Tyr	Thr	Val	Val	Asp	Glu	Asn	Ala	Val	Ala	Lys	Ile
145				150					155					160	
Asp	Ala	Ala	Ser	Pro	Leu	Glu	Lys	Val	Cys	Leu	Ile	Gly	Cys	Gly	Phe
			165					170					175		
Ser	Thr	Gly	Tyr	Gly	Ser	Ala	Val	Asn	Val	Ala	Lys	Val	Thr	Pro	Gly
			180					185					190		
Ser	Thr	Cys	Ala	Val	Phe	Gly	Leu	Gly	Gly	Val	Gly	Leu	Ser	Ala	Val
		195					200				205				
Met	Gly	Cys	Lys	Ala	Ala	Gly	Ala	Ala	Arg	Ile	Ile	Ala	Val	Asp	Ile

210		215		220
Asn Lys Asp Lys Phe Ala Lys Ala Lys Glu Leu Gly Ala Thr Glu Cys				
225		230		240
Ile Asn Pro Gln Asp Tyr Lys Lys Pro Ile Gln Glu Val Leu Lys Glu				
	245		250	255
Met Thr Asp Gly Gly Val Asp Phe Ser Phe Glu Val Ile Gly Arg Leu				
	260		265	270
Asp Thr Met Met Ala Ser Leu Leu Cys Cys His Glu Ala Cys Gly Thr				
	275		280	285
Ser Val Ile Val Gly Val Pro Pro Ala Ser Gln Asn Leu Ser Ile Asn				
	290		295	300
Pro Met Leu Leu Leu Thr Gly Arg Thr Trp Lys Gly Ala Val Tyr Gly				
305		310		320
Gly Phe Lys Ser Lys Glu Gly Ile Pro Lys Leu Val Ala Asp Phe Met				
	325		330	335
Ala Lys Lys Phe Ser Leu Asp Ala Leu Ile Thr His Val Leu Pro Phe				
	340		345	350
Glu Lys Ile Asn Glu Gly Phe Asp Leu Leu His Ser Gly Lys Ser Ile				
	355		360	365
Arg Thr Val Leu Thr Phe				
370				

<210> 84
 <211> 241
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Glutathione transferase omega 1
 <222> (1)..(241)
 <223> Accession NO: as of 29 August 2003: P78417
 <400> 84

Met Ser Gly Glu Ser Ala Arg Ser Leu Gly Lys Gly Ser Ala Pro Pro			
1	5	10	15
Gly Pro Val Pro Glu Gly Ser Ile Arg Ile Tyr Ser Met Arg Phe Cys			
	20	25	30
Pro Phe Ala Glu Arg Thr Arg Leu Val Leu Lys Ala Lys Gly Ile Arg			
	35	40	45
His Glu Val Ile Asn Ile Asn Leu Lys Asn Lys Pro Glu Trp Phe Phe			
50	55	60	

Lys Lys Asn Pro Phe Gly Leu Val Pro Val Leu Glu Asn Ser Gln Gly
 65 70 75 80
 Gln Leu Ile Tyr Glu Ser Ala Ile Thr Cys Glu Tyr Leu Asp Glu Ala
 85 90 95
 Tyr Pro Gly Lys Lys Leu Leu Pro Asp Asp Pro Tyr Glu Lys Ala Cys
 100 105 110
 Gln Lys Met Ile Leu Glu Leu Phe Ser Lys Val Pro Ser Leu Val Gly
 115 120 125
 Ser Phe Ile Arg Ser Gln Asn Lys Glu Asp Tyr Ala Gly Leu Lys Glu
 130 135 140
 Glu Phe Arg Lys Glu Phe Thr Lys Leu Glu Glu Val Leu Thr Asn Lys
 145 150 155 160
 Lys Thr Thr Phe Phe Gly Gly Asn Ser Ile Ser Met Ile Asp Tyr Leu
 165 170 175
 Ile Trp Pro Trp Phe Glu Arg Leu Glu Ala Met Lys Leu Asn Glu Cys
 180 185 190
 Val Asp His Thr Pro Lys Leu Lys Leu Trp Met Ala Ala Met Lys Glu
 195 200 205
 Asp Pro Thr Val Ser Ala Leu Leu Thr Ser Glu Lys Asp Trp Gln Gly
 210 215 220
 Phe Leu Glu Leu Tyr Leu Gln Asn Ser Pro Glu Ala Cys Asp Tyr Gly
 225 230 235 240
 Leu

<210> 85
 <211> 999
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> 150 kDa oxygen-regulated protein precursor (Orp150)
 <222> (1)..(999)
 <223> Accession NO: as of 29 August 2003: Q9Y4L1
 <400> 85

Met Ala Asp Lys Val Arg Arg Gln Arg Pro Arg Arg Arg Val Cys Trp
 1 5 10 15
 Ala Leu Val Ala Val Leu Leu Ala Asp Leu Leu Ala Leu Ser Asp Thr
 20 25 30
 Leu Ala Val Met Ser Val Asp Leu Gly Ser Glu Ser Met Lys Val Ala

35					40					45					
Ile	Val	Lys	Pro	Gly	Val	Pro	Met	Glu	Ile	Val	Leu	Asn	Lys	Glu	Ser
50					55					60					
Arg	Arg	Lys	Thr	Pro	Val	Ile	Val	Thr	Leu	Lys	Glu	Asn	Glu	Arg	Phe
65					70					75					80
Phe	Gly	Asp	Ser	Ala	Ala	Ser	Met	Ala	Ile	Lys	Asn	Pro	Lys	Ala	Thr
				85					90					95	
Leu	Arg	Tyr	Phe	Gln	His	Leu	Leu	Gly	Lys	Gln	Ala	Asp	Asn	Pro	His
			100					105					110		
Val	Ala	Leu	Tyr	Gln	Ala	Arg	Phe	Pro	Glu	His	Glu	Leu	Thr	Phe	Asp
	115					120					125				
Pro	Gln	Arg	Gln	Thr	Val	His	Phe	Gln	Ile	Ser	Ser	Gln	Leu	Gln	Phe
	130					135					140				
Ser	Pro	Glu	Glu	Val	Leu	Gly	Met	Val	Leu	Asn	Tyr	Ser	Arg	Ser	Leu
145				150					155					160	
Ala	Glu	Asp	Phe	Ala	Glu	Gln	Pro	Ile	Lys	Asp	Ala	Val	Ile	Thr	Val
			165					170					175		
Pro	Val	Phe	Phe	Asn	Gln	Ala	Glu	Arg	Arg	Ala	Val	Leu	Gln	Ala	Ala
	180					185					190				
Arg	Met	Ala	Gly	Leu	Lys	Val	Leu	Gln	Leu	Ile	Asn	Asp	Asn	Thr	Ala
	195					200					205				
Thr	Ala	Leu	Ser	Tyr	Gly	Val	Phe	Arg	Arg	Lys	Asp	Ile	Asn	Thr	Thr
	210					215					220				
Ala	Gln	Asn	Ile	Met	Phe	Tyr	Asp	Met	Gly	Ser	Gly	Ser	Thr	Val	Cys
225				230					235					240	
Thr	Ile	Val	Thr	Tyr	Gln	Met	Val	Lys	Thr	Lys	Glu	Ala	Gly	Met	Gln
			245					250					255		
Pro	Gln	Leu	Gln	Ile	Arg	Gly	Val	Gly	Phe	Asp	Arg	Thr	Leu	Gly	Gly
	260					265					270				
Leu	Glu	Met	Glu	Leu	Arg	Leu	Arg	Glu	Arg	Leu	Ala	Gly	Leu	Phe	Asn
	275					280					285				
Glu	Gln	Arg	Lys	Gly	Gln	Arg	Ala	Lys	Asp	Val	Arg	Glu	Asn	Pro	Arg
	290					295					300				
Ala	Met	Ala	Lys	Leu	Leu	Arg	Glu	Ala	Asn	Arg	Leu	Lys	Thr	Val	Leu
305				310					315					320	
Ser	Ala	Asn	Ala	Asp	His	Met	Ala	Gln	Ile	Glu	Gly	Leu	Met	Asp	Asp
			325					330					335		
Val	Asp	Phe	Lys	Ala	Lys	Val	Thr	Arg	Val	Glu	Phe	Glu	Glu	Leu	Cys
	340							345					350		
Ala	Asp	Leu	Phe	Glu	Arg	Val	Pro	Gly	Pro	Val	Gln	Gln	Ala	Leu	Gln
	355					360					365				

Ser Ala Glu Met Ser Leu Asp Glu Ile Glu Gln Val Ile Leu Val Gly
 370 375 380
 Gly Ala Thr Arg Val Pro Arg Val Gln Glu Val Leu Leu Lys Ala Val
 385 390 395 400
 Gly Lys Glu Glu Leu Gly Lys Asn Ile Asn Ala Asp Glu Ala Ala Ala
 405 410 415
 Met Gly Ala Val Tyr Gln Ala Ala Ala Leu Ser Lys Ala Phe Lys Val
 420 425 430
 Lys Pro Phe Val Val Arg Asp Ala Val Val Tyr Pro Ile Leu Val Glu
 435 440 445
 Phe Thr Arg Glu Val Glu Glu Glu Pro Gly Ile His Ser Leu Lys His
 450 455 460
 Asn Lys Arg Val Leu Phe Ser Arg Met Gly Pro Tyr Pro Gln Arg Lys
 465 470 475 480
 Val Ile Thr Phe Asn Arg Tyr Ser His Asp Phe Asn Phe His Ile Asn
 485 490 495
 Tyr Gly Asp Leu Gly Phe Leu Gly Pro Glu Asp Leu Arg Val Phe Gly
 500 505 510
 Ser Gln Asn Leu Thr Thr Val Lys Leu Lys Gly Val Gly Asp Ser Phe
 515 520 525
 Lys Lys Tyr Pro Asp Tyr Glu Ser Lys Gly Ile Lys Ala His Phe Asn
 530 535 540
 Leu Asp Glu Ser Gly Val Leu Ser Leu Asp Arg Val Glu Ser Val Phe
 545 550 555 560
 Glu Thr Leu Val Glu Asp Ser Ala Glu Glu Glu Ser Thr Leu Thr Lys
 565 570 575
 Leu Gly Asn Thr Ile Ser Ser Leu Phe Gly Gly Gly Thr Thr Pro Asp
 580 585 590
 Ala Lys Glu Asn Gly Thr Asp Thr Val Gln Glu Glu Glu Glu Ser Pro
 595 600 605
 Ala Glu Gly Ser Lys Asp Glu Pro Gly Glu Gln Val Glu Leu Lys Glu
 610 615 620
 Glu Ala Glu Ala Pro Val Glu Asp Gly Ser Gln Pro Pro Pro Pro Glu
 625 630 635 640
 Pro Lys Gly Asp Ala Thr Pro Glu Gly Glu Lys Ala Thr Glu Lys Glu
 645 650 655
 Asn Gly Asp Lys Ser Glu Ala Gln Lys Pro Ser Glu Lys Ala Glu Ala
 660 665 670
 Gly Pro Glu Gly Val Ala Pro Ala Pro Glu Gly Glu Lys Lys Gln Lys
 675 680 685
 Pro Ala Arg Lys Arg Arg Met Val Glu Glu Ile Gly Val Glu Leu Val

690		695		700
Val Leu Asp Leu Pro Asp Leu Pro Glu Asp Lys Leu Ala Gln Ser Val				
705		710		715
Gln Lys Leu Gln Asp Leu Thr Leu Arg Asp Leu Glu Lys Gln Glu Arg				
	725		730	735
Glu Lys Ala Ala Asn Ser Leu Glu Ala Phe Ile Phe Glu Thr Gln Asp				
	740		745	750
Lys Leu Tyr Gln Pro Glu Tyr Gln Glu Val Ser Thr Glu Glu Gln Arg				
	755		760	765
Glu Glu Ile Ser Gly Lys Leu Ser Ala Ala Ser Thr Trp Leu Glu Asp				
	770		775	780
Glu Gly Val Gly Ala Thr Thr Val Met Leu Lys Glu Lys Leu Ala Glu				
785		790		795
Leu Arg Lys Leu Cys Gln Gly Leu Phe Phe Arg Val Glu Glu Arg Lys				
	805		810	815
Lys Trp Pro Glu Arg Leu Ser Ala Leu Asp Asn Leu Leu Asn His Ser				
	820		825	830
Ser Met Phe Leu Lys Gly Ala Arg Leu Ile Pro Glu Met Asp Gln Ile				
	835		840	845
Phe Thr Glu Val Glu Met Thr Thr Leu Glu Lys Val Ile Asn Glu Thr				
	850		855	860
Trp Ala Trp Lys Asn Ala Thr Leu Ala Glu Gln Ala Lys Leu Pro Ala				
865		870		875
Thr Glu Lys Pro Val Leu Leu Ser Lys Asp Ile Glu Ala Lys Met Met				
	885		890	895
Ala Leu Asp Arg Glu Val Gln Tyr Leu Leu Asn Lys Ala Lys Phe Thr				
	900		905	910
Lys Pro Arg Pro Arg Pro Lys Asp Lys Asn Gly Thr Arg Ala Glu Pro				
	915		920	925
Pro Leu Asn Ala Ser Ala Ser Asp Gln Gly Glu Lys Val Ile Pro Pro				
	930		935	940
Ala Gly Gln Thr Glu Asp Ala Glu Pro Ile Ser Glu Pro Glu Lys Val				
945		950		955
Glu Thr Gly Ser Glu Pro Gly Asp Thr Glu Pro Leu Glu Leu Gly Gly				
	965		970	975
Pro Gly Ala Glu Pro Glu Gln Lys Glu Gln Ser Thr Gly Gln Lys Arg				
	980		985	990
Pro Leu Lys Asn Asp Glu Leu				
995				

<210> 86
 <211> 271
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Peroxiredoxin 4
 <222> (1) .. (271)
 <223> Accession NO: as of 29 August 2003: Q13162
 <400> 86

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Met Glu Ala Leu Pro Leu Leu Ala Ala Thr Thr Pro Asp His Gly Arg
1           5           10           15
His Arg Arg Leu Leu Leu Leu Pro Leu Leu Leu Phe Leu Leu Pro Ala
          20           25           30
Gly Ala Val Gln Gly Trp Glu Thr Glu Glu Arg Pro Arg Thr Arg Glu
          35           40           45
Glu Glu Cys His Phe Tyr Ala Gly Gly Gln Val Tyr Pro Gly Glu Ala
          50           55           60
Ser Arg Val Ser Val Ala Asp His Ser Leu His Leu Ser Lys Ala Lys
65           70           75           80
Ile Ser Lys Pro Ala Pro Tyr Trp Glu Gly Thr Ala Val Ile Asp Gly
          85           90           95
Glu Phe Lys Glu Leu Lys Leu Thr Asp Tyr Arg Gly Lys Tyr Leu Val
          100          105          110
Phe Phe Phe Tyr Pro Leu Asp Phe Thr Phe Val Cys Pro Thr Glu Ile
          115          120          125
Ile Ala Phe Gly Asp Arg Leu Glu Glu Phe Arg Ser Ile Asn Thr Glu
          130          135          140
Val Val Ala Cys Ser Val Asp Ser Gln Phe Thr His Leu Ala Trp Ile
145           150           155           160
Asn Thr Pro Arg Arg Gln Gly Gly Leu Gly Pro Ile Arg Ile Pro Leu
          165          170          175
Leu Ser Asp Leu Thr His Gln Ile Ser Lys Asp Tyr Gly Val Tyr Leu
          180          185          190
Glu Asp Ser Gly His Thr Leu Arg Gly Leu Phe Ile Ile Asp Asp Lys
          195          200          205
Gly Ile Leu Arg Gln Ile Thr Leu Asn Asp Leu Pro Val Gly Arg Ser
          210          215          220
Val Asp Glu Thr Leu Arg Leu Val Gln Ala Phe Gln Tyr Thr Asp Lys
225           230           235           240
His Gly Glu Val Cys Pro Ala Gly Trp Lys Pro Gly Ser Glu Thr Ile
  
```

	245	250	255
Ile Pro Asp	Pro Ala Gly Lys Leu Lys Tyr Phe Asp Lys Leu Asn		
	260	265	270

<210> 87
 <211> 288
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> MAWD binding protein
 <222> (1)..(288)
 <223> Accession NO: as of 29 August 2003: P30039
 <400> 87

Met Lys Leu Pro Ile Phe Ile Ala Asp Ala Phe Thr Ala Arg Ala Phe			
1	5	10	15
Arg Gly Asn Pro Ala Ala Val Cys Leu Leu Glu Asn Glu Leu Asp Glu			
	20	25	30
Asp Met His Gln Lys Ile Ala Arg Glu Met Asn Leu Ser Glu Thr Ala			
	35	40	45
Phe Ile Arg Lys Leu His Pro Thr Asp Asn Phe Ala Gln Ser Ser Cys			
	50	55	60
Phe Gly Leu Arg Trp Phe Thr Pro Ala Ser Glu Val Pro Leu Cys Gly			
65	70	75	80
His Ala Thr Leu Ala Ser Ala Ala Val Leu Phe His Lys Ile Lys Asn			
	85	90	95
Met Asn Ser Thr Leu Thr Phe Val Thr Leu Ser Gly Glu Leu Arg Ala			
	100	105	110
Arg Arg Ala Glu Asp Gly Ile Val Leu Asp Leu Pro Leu Tyr Pro Ala			
	115	120	125
His Pro Gln Asp Phe His Glu Val Glu Asp Leu Ile Lys Thr Ala Ile			
	130	135	140
Gly Asn Thr Leu Val Gln Asp Ile Cys Tyr Ser Pro Asp Thr Gln Lys			
145	150	155	160
Leu Leu Val Arg Leu Ser Asp Val Tyr Asn Arg Ser Phe Leu Glu Asn			
	165	170	175
Leu Lys Val Asn Thr Glu Asn Leu Leu Gln Val Glu Asn Thr Gly Lys			
	180	185	190
Val Lys Gly Leu Ile Leu Thr Leu Lys Gly Glu Pro Gly Gly Gln Thr			
	195	200	205

Gln Ala Phe Asp Phe Tyr Ser Arg Tyr Phe Ala Pro Trp Val Gly Val
 210 215 220
 Ala Glu Asp Pro Val Thr Gly Ser Ala His Ala Val Leu Ser Ser Tyr
 225 230 235 240
 Trp Ser Gln His Leu Gly Lys Lys Glu Met His Ala Phe Gln Cys Ser
 245 250 255
 His Arg Gly Gly Glu Leu Gly Ile Ser Leu Arg Pro Asp Gly Arg Val
 260 265 270
 Asp Ile Arg Gly Gly Ala Ala Val Val Leu Glu Gly Thr Leu Thr Ala
 275 280 285

<210> 88
 <211> 511
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Alpha-amylase 2B precursor
 <222> (1) .. (511)
 <223> Accession NO: as of 29 August 2003: P19961
 <400> 88

Met Lys Phe Phe Leu Leu Leu Phe Thr Ile Gly Phe Cys Trp Ala Gln
 1 5 10 15
 Tyr Ser Pro Asn Thr Gln Gln Gly Arg Thr Ser Ile Val His Leu Phe
 20 25 30
 Glu Trp Arg Trp Val Asp Ile Ala Leu Glu Cys Glu Arg Tyr Leu Ala
 35 40 45
 Pro Lys Gly Phe Gly Gly Val Gln Val Ser Pro Pro Asn Glu Asn Val
 50 55 60
 Ala Ile His Asn Pro Phe Arg Pro Trp Trp Glu Arg Tyr Gln Pro Val
 65 70 75 80
 Ser Tyr Lys Leu Cys Thr Arg Ser Gly Asn Glu Asp Glu Phe Arg Asn
 85 90 95
 Met Val Thr Arg Cys Asn Asn Val Gly Val Arg Ile Tyr Val Asp Ala
 100 105 110
 Val Ile Asn His Met Ser Gly Asn Ala Val Ser Ala Gly Thr Ser Ser
 115 120 125
 Thr Cys Gly Ser Tyr Phe Asn Pro Gly Ser Arg Asp Phe Pro Ala Val
 130 135 140
 Pro Tyr Ser Gly Trp Asp Phe Asn Asp Gly Lys Cys Lys Thr Gly Ser

145		150		155		160									
Gly	Asp	Ile	Glu	Asn	Tyr	Asn	Asp	Ala	Thr	Gln	Val	Arg	Asp	Cys	Arg
		165		170		175									
Leu	Val	Gly	Leu	Leu	Asp	Leu	Ala	Leu	Glu	Lys	Asp	Tyr	Val	Arg	Ser
		180		185		190									
Lys	Ile	Ala	Glu	Tyr	Met	Asn	His	Leu	Ile	Asp	Ile	Gly	Val	Ala	Gly
		195		200		205									
Phe	Arg	Leu	Asp	Ala	Ser	Lys	His	Met	Trp	Pro	Gly	Asp	Ile	Lys	Ala
		210		215		220									
Ile	Leu	Asp	Lys	Leu	His	Asn	Leu	Asn	Ser	Asn	Trp	Phe	Pro	Ala	Gly
225				230		235									240
Ser	Lys	Pro	Phe	Ile	Tyr	Gln	Glu	Val	Ile	Asp	Leu	Gly	Gly	Glu	Pro
				245		250									255
Ile	Lys	Ser	Ser	Asp	Tyr	Phe	Gly	Asn	Gly	Arg	Val	Thr	Glu	Phe	Lys
				260		265									270
Tyr	Gly	Ala	Lys	Leu	Gly	Thr	Val	Ile	Arg	Lys	Trp	Asn	Gly	Glu	Lys
				275		280									285
Met	Ser	Tyr	Leu	Lys	Asn	Trp	Gly	Glu	Gly	Trp	Gly	Phe	Met	Pro	Ser
				290		295									300
Asp	Arg	Ala	Leu	Val	Phe	Val	Asp	Asn	His	Asp	Asn	Gln	Arg	Gly	His
305				310		315									320
Gly	Ala	Gly	Gly	Ala	Ser	Ile	Leu	Thr	Phe	Trp	Asp	Ala	Arg	Leu	Tyr
				325		330									335
Lys	Met	Ala	Val	Gly	Phe	Met	Leu	Ala	His	Pro	Tyr	Gly	Phe	Thr	Arg
				340		345									350
Val	Met	Ser	Ser	Tyr	Arg	Trp	Pro	Arg	Gln	Phe	Gln	Asn	Gly	Asn	Asp
				355		360									365
Val	Asn	Asp	Trp	Val	Gly	Pro	Pro	Asn	Asn	Asn	Gly	Val	Ile	Lys	Glu
				370		375									380
Val	Thr	Ile	Asn	Pro	Asp	Thr	Thr	Cys	Gly	Asn	Asp	Trp	Val	Cys	Glu
385				390		395									400
His	Arg	Trp	Arg	Gln	Ile	Arg	Asn	Met	Val	Asn	Phe	Arg	Asn	Val	Val
				405		410									415
Asp	Gly	Gln	Pro	Phe	Thr	Asn	Trp	Tyr	Asp	Asn	Gly	Ser	Asn	Gln	Val
				420		425									430
Ala	Phe	Gly	Arg	Gly	Asn	Arg	Gly	Phe	Ile	Val	Phe	Asn	Asn	Asp	Asp
				435		440									445
Trp	Thr	Phe	Ser	Leu	Thr	Leu	Gln	Thr	Gly	Leu	Pro	Ala	Gly	Thr	Tyr
				450		455									460
Cys	Asp	Val	Ile	Ser	Gly	Asp	Lys	Ile	Asn	Gly	Asn	Cys	Thr	Gly	Ile
465				470		475									480

Lys Ile Tyr Val Ser Asp Asp Gly Lys Ala His Phe Ser Ile Ser Asn
485 490 495
Ser Ala Glu Asp Pro Phe Ile Ala Ile His Ala Glu Ser Lys Leu
500 505 510

<210> 89
<211> 511
<212> PRT
<213> Homo sapiens
<220>
<221> Alpha-amylase, pancreatic precursor
<222> (1)..(511)
<223> Accession NO: as of 29 August 2003: P04746
<400> 89

Met Lys Phe Phe Leu Leu Leu Phe Thr Ile Gly Phe Cys Trp Ala Gln
1 5 10 15
Tyr Ser Pro Asn Thr Gln Gln Gly Arg Thr Ser Ile Val His Leu Phe
20 25 30
Glu Trp Arg Trp Val Asp Ile Ala Leu Glu Cys Glu Arg Tyr Leu Ala
35 40 45
Pro Lys Gly Phe Gly Gly Val Gln Val Ser Pro Pro Asn Glu Asn Val
50 55 60
Ala Ile Tyr Asn Pro Phe Arg Pro Trp Trp Glu Arg Tyr Gln Pro Val
65 70 75 80
Ser Tyr Lys Leu Cys Thr Arg Ser Gly Asn Glu Asp Glu Phe Arg Asn
85 90 95
Met Val Thr Arg Cys Asn Asn Val Gly Val Arg Ile Tyr Val Asp Ala
100 105 110
Val Ile Asn His Met Cys Gly Asn Ala Val Ser Ala Gly Thr Ser Ser
115 120 125
Thr Cys Gly Ser Tyr Phe Asn Pro Gly Ser Arg Asp Phe Pro Ala Val
130 135 140
Pro Tyr Ser Gly Trp Asp Phe Asn Asp Gly Lys Cys Lys Thr Gly Ser
145 150 155 160
Gly Asp Ile Glu Asn Tyr Asn Asp Ala Thr Gln Val Arg Asp Cys Arg
165 170 175
Leu Thr Gly Leu Leu Asp Leu Ala Leu Glu Lys Asp Tyr Val Arg Ser
180 185 190
Lys Ile Ala Glu Tyr Met Asn His Leu Ile Asp Ile Gly Val Ala Gly

195	200	205
Phe Arg Leu Asp Ala Ser Lys His Met Trp Pro Gly Asp Ile Lys Ala		
210	215	220
Ile Leu Asp Lys Leu His Asn Leu Asn Ser Asn Trp Phe Pro Ala Gly		
225	230	235
Ser Lys Pro Phe Ile Tyr Gln Glu Val Ile Asp Leu Gly Gly Glu Pro		
245	250	255
Ile Lys Ser Ser Asp Tyr Phe Gly Asn Gly Arg Val Thr Glu Phe Lys		
260	265	270
Tyr Gly Ala Lys Leu Gly Thr Val Ile Arg Lys Trp Asn Gly Glu Lys		
275	280	285
Met Ser Tyr Leu Lys Asn Trp Gly Glu Gly Trp Gly Phe Val Pro Ser		
290	295	300
Asp Arg Ala Leu Val Phe Val Asp Asn His Asp Asn Gln Arg Gly His		
305	310	315
Gly Ala Gly Gly Ala Ser Ile Leu Thr Phe Trp Asp Ala Arg Leu Tyr		
325	330	335
Lys Met Ala Val Gly Phe Met Leu Ala His Pro Tyr Gly Phe Thr Arg		
340	345	350
Val Met Ser Ser Tyr Arg Trp Pro Arg Gln Phe Gln Asn Gly Asn Asp		
355	360	365
Val Asn Asp Trp Val Gly Pro Pro Asn Asn Asn Gly Val Ile Lys Glu		
370	375	380
Val Thr Ile Asn Pro Asp Thr Thr Cys Gly Asn Asp Trp Val Cys Glu		
385	390	395
His Arg Trp Arg Gln Ile Arg Asn Met Val Ile Phe Arg Asn Val Val		
405	410	415
Asp Gly Gln Pro Phe Thr Asn Trp Tyr Asp Asn Gly Ser Asn Gln Val		
420	425	430
Ala Phe Gly Arg Gly Asn Arg Gly Phe Ile Val Phe Asn Asn Asp Asp		
435	440	445
Trp Ser Phe Ser Leu Thr Leu Gln Thr Gly Leu Pro Ala Gly Thr Tyr		
450	455	460
Cys Asp Val Ile Ser Gly Asp Lys Ile Asn Gly Asn Cys Thr Gly Ile		
465	470	475
Lys Ile Tyr Val Ser Asp Asp Gly Lys Ala His Phe Ser Ile Ser Asn		
485	490	495
Ser Ala Glu Asp Pro Phe Ile Ala Ile His Ala Glu Ser Lys Leu		
500	505	510

<210> 90
 <211> 553
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> ATP synthase alpha chain
 <222> (1)..(553)
 <223> Accession NO: as of 29 August 2003: P25705
 <400> 90

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Met Leu Ser Val Arg Val Ala Ala Ala Val Val Arg Ala Leu Pro Arg
1           5           10           15
Arg Ala Gly Leu Val Ser Arg Asn Ala Leu Gly Ser Ser Phe Ile Ala
          20           25           30
Ala Arg Asn Phe His Ala Ser Asn Thr His Leu Gln Lys Thr Gly Thr
          35           40           45
Ala Glu Met Ser Ser Ile Leu Glu Glu Arg Ile Leu Gly Ala Asp Thr
          50           55           60
Ser Val Asp Leu Glu Glu Thr Gly Arg Val Leu Ser Ile Gly Asp Gly
65           70           75           80
Ile Ala Arg Val His Gly Leu Arg Asn Val Gln Ala Glu Glu Met Val
          85           90           95
Glu Phe Ser Ser Gly Leu Lys Gly Met Ser Leu Asn Leu Glu Pro Asp
          100          105          110
Asn Val Gly Val Val Val Phe Gly Asn Asp Lys Leu Ile Lys Glu Gly
          115          120          125
Asp Ile Val Lys Arg Thr Gly Ala Ile Val Asp Val Pro Val Gly Glu
          130          135          140
Glu Leu Leu Gly Arg Val Val Asp Ala Leu Gly Asn Ala Ile Asp Gly
145          150          155          160
Lys Gly Pro Ile Gly Ser Lys Thr Arg Arg Arg Val Gly Leu Lys Ala
          165          170          175
Pro Gly Ile Ile Pro Arg Ile Ser Val Arg Glu Pro Met Gln Thr Gly
          180          185          190
Ile Lys Ala Val Asp Ser Leu Val Pro Ile Gly Arg Gly Gln Arg Glu
          195          200          205
Leu Ile Ile Gly Asp Arg Gln Thr Gly Lys Thr Ser Ile Ala Ile Asp
          210          215          220
Thr Ile Ile Asn Gln Lys Arg Phe Asn Asp Gly Ser Asp Glu Lys Lys
225          230          235          240
Lys Leu Tyr Cys Ile Tyr Val Ala Ile Gly Gln Lys Arg Ser Thr Val
  
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<210> 91
 <211> 742
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Bile-salt-activated lipase precursor
 <222> (1) .. (742)
 <223> Accession NO: as of 29 August 2003: P19835
 <400> 91

Met	Gly	Arg	Leu	Gln	Leu	Val	Val	Leu	Gly	Leu	Thr	Cys	Cys	Trp	Ala
1			5					10						15	
Val	Ala	Ser	Ala	Ala	Lys	Leu	Gly	Ala	Val	Tyr	Thr	Glu	Gly	Gly	Phe
			20					25						30	
Val	Glu	Gly	Val	Asn	Lys	Lys	Leu	Gly	Leu	Leu	Gly	Asp	Ser	Val	Asp
			35					40						45	
Ile	Phe	Lys	Gly	Ile	Pro	Phe	Ala	Ala	Pro	Thr	Lys	Ala	Leu	Glu	Asn
			50					55						60	
Pro	Gln	Pro	His	Pro	Gly	Trp	Gln	Gly	Thr	Leu	Lys	Ala	Lys	Asn	Phe
65						70				75					80
Lys	Lys	Arg	Cys	Leu	Gln	Ala	Thr	Ile	Thr	Gln	Asp	Ser	Thr	Tyr	Gly
						85				90					95
Asp	Glu	Asp	Cys	Leu	Tyr	Leu	Asn	Ile	Trp	Val	Pro	Gln	Gly	Arg	Lys
						100				105				110	
Gln	Val	Ser	Arg	Asp	Leu	Pro	Val	Met	Ile	Trp	Ile	Tyr	Gly	Gly	Ala
						115				120				125	
Phe	Leu	Met	Gly	Ser	Gly	His	Gly	Ala	Asn	Phe	Leu	Asn	Asn	Tyr	Leu
						130				135				140	
Tyr	Asp	Gly	Glu	Glu	Ile	Ala	Thr	Arg	Gly	Asn	Val	Ile	Val	Val	Thr
145						150				155					160
Phe	Asn	Tyr	Arg	Val	Gly	Pro	Leu	Gly	Phe	Leu	Ser	Thr	Gly	Asp	Ala
						165				170					175
Asn	Leu	Pro	Gly	Asn	Tyr	Gly	Leu	Arg	Asp	Gln	His	Met	Ala	Ile	Ala
						180				185				190	
Trp	Val	Lys	Arg	Asn	Ile	Ala	Ala	Phe	Gly	Gly	Asp	Pro	Asn	Asn	Ile
						195				200				205	
Thr	Leu	Phe	Gly	Glu	Ser	Ala	Gly	Gly	Ala	Ser	Val	Ser	Leu	Gln	Thr
						210				215				220	
Leu	Ser	Pro	Tyr	Asn	Lys	Gly	Leu	Ile	Arg	Arg	Ala	Ile	Ser	Gln	Ser
225						230				235					240
Gly	Val	Ala	Leu	Ser	Pro	Trp	Val	Ile	Gln	Lys	Asn	Pro	Leu	Phe	Trp

Ser Glu Thr Ala Pro Val Pro Pro Thr Gly Asp Ser Gly Ala Pro Pro
 580 585 590
 Val Pro Pro Thr Gly Asp Ser Gly Ala Pro Pro Val Pro Pro Thr Gly
 595 600 605
 Asp Ser Gly Ala Pro Pro Val Pro Pro Thr Gly Asp Ser Gly Ala Pro
 610 615 620
 Pro Val Pro Pro Thr Gly Asp Ser Gly Ala Pro Pro Val Pro Pro Thr
 625 630 635 640
 Gly Asp Ser Gly Ala Pro Pro Val Pro Pro Thr Gly Asp Ser Gly Ala
 645 650 655
 Pro Pro Val Pro Pro Thr Gly Asp Ala Gly Pro Pro Pro Val Pro Pro
 660 665 670
 Thr Gly Asp Ser Gly Ala Pro Pro Val Pro Pro Thr Gly Asp Ser Gly
 675 680 685
 Ala Pro Pro Val Thr Pro Thr Gly Asp Ser Glu Thr Ala Pro Val Pro
 690 695 700
 Pro Thr Gly Asp Ser Gly Ala Pro Pro Val Pro Pro Thr Gly Asp Ser
 705 710 715 720
 Glu Ala Ala Pro Val Pro Pro Thr Asp Asp Ser Lys Glu Ala Gln Met
 725 730 735
 Pro Ala Val Ile Arg Phe
 740

<210> 92
 <211> 467
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Pancreatic lipase related protein precursor
 <222> (1)..(467)
 <223> Accession NO: as of 29 August 2003: P54315
 <400> 92

Met Leu Ile Phe Trp Thr Ile Thr Leu Phe Leu Leu Gly Ala Ala Lys
 1 5 10 15
 Gly Lys Glu Val Cys Tyr Glu Asp Leu Gly Cys Phe Ser Asp Thr Glu
 20 25 30
 Pro Trp Gly Gly Thr Ala Ile Arg Pro Leu Lys Ile Leu Pro Trp Ser
 35 40 45
 Pro Glu Lys Ile Gly Thr Arg Phe Leu Leu Tyr Thr Asn Glu Asn Pro

50		55		60
Asn Asn Phe Gln Ile Leu Leu Leu Ser Asp Pro Ser Thr Ile Glu Ala				
65	70	75	80	
Ser Asn Phe Gln Met Asp Arg Lys Thr Arg Phe Ile Ile His Gly Phe				
	85	90	95	
Ile Asp Lys Gly Asp Glu Ser Trp Val Thr Asp Met Cys Lys Lys Leu				
	100	105	110	
Phe Glu Val Glu Glu Val Asn Cys Ile Cys Val Asp Trp Lys Lys Gly				
	115	120	125	
Ser Gln Ala Thr Tyr Thr Gln Ala Ala Asn Asn Val Arg Val Val Gly				
	130	135	140	
Ala Gln Val Ala Gln Met Leu Asp Ile Leu Leu Thr Glu Tyr Ser Tyr				
145	150	155	160	
Pro Pro Ser Lys Val His Leu Ile Gly His Ser Leu Gly Ala His Val				
	165	170	175	
Ala Gly Glu Ala Gly Ser Lys Thr Pro Gly Leu Ser Arg Ile Thr Gly				
	180	185	190	
Leu Asp Pro Val Glu Ala Ser Phe Glu Ser Thr Pro Glu Glu Val Arg				
	195	200	205	
Leu Asp Pro Ser Asp Ala Asp Phe Val Asp Val Ile His Thr Asp Ala				
	210	215	220	
Ala Pro Leu Ile Pro Phe Leu Gly Phe Gly Thr Asn Gln Gln Met Gly				
225	230	235	240	
His Leu Asp Phe Phe Pro Asn Gly Gly Glu Ser Met Pro Gly Cys Lys				
	245	250	255	
Lys Asn Ala Leu Ser Gln Ile Val Asp Leu Asp Gly Ile Trp Ala Gly				
	260	265	270	
Thr Arg Asp Phe Val Ala Cys Asn His Leu Arg Ser Tyr Lys Tyr Tyr				
	275	280	285	
Leu Glu Ser Ile Leu Asn Pro Asp Gly Phe Ala Ala Tyr Pro Cys Thr				
	290	295	300	
Ser Tyr Lys Ser Phe Glu Ser Asp Lys Cys Phe Pro Cys Pro Asp Gln				
305	310	315	320	
Gly Cys Pro Gln Met Gly His Tyr Ala Asp Lys Phe Ala Gly Arg Thr				
	325	330	335	
Ser Glu Glu Gln Gln Lys Phe Phe Leu Asn Thr Gly Glu Ala Ser Asn				
	340	345	350	
Phe Ala Arg Trp Arg Tyr Gly Val Ser Ile Thr Leu Ser Gly Arg Thr				
	355	360	365	
Ala Thr Gly Gln Ile Lys Val Ala Leu Phe Gly Asn Lys Gly Asn Thr				
370	375	380		

His Gln Tyr Ser Ile Phe Arg Gly Ile Leu Lys Pro Gly Ser Thr His
 385 390 395 400
 Ser Tyr Glu Phe Asp Ala Lys Leu Asp Val Gly Thr Ile Glu Lys Val
 405 410 415
 Lys Phe Leu Trp Asn Asn Asn Val Ile Asn Pro Thr Leu Pro Lys Val
 420 425 430
 Gly Ala Thr Lys Ile Thr Val Gln Lys Gly Glu Glu Lys Thr Val Tyr
 435 440 445
 Asn Phe Cys Ser Glu Asp Thr Val Arg Glu Asp Thr Leu Leu Thr Leu
 450 455 460
 Thr Pro Cys
 465

<210> 93
 <211> 469
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Pancreatic lipase related protein 2 precursor
 <222> (1)..(469)
 <223> Accession NO: as of 29 August 2003: P54317
 <400> 93

Met Leu Pro Pro Trp Thr Leu Gly Leu Leu Leu Leu Ala Thr Val Arg
 1 5 10 15
 Gly Lys Glu Val Cys Tyr Gly Gln Leu Gly Cys Phe Ser Asp Glu Lys
 20 25 30
 Pro Trp Ala Gly Thr Leu Gln Arg Pro Val Lys Leu Leu Pro Trp Ser
 35 40 45
 Pro Glu Asp Ile Asp Thr Arg Phe Leu Leu Tyr Thr Asn Glu Asn Pro
 50 55 60
 Asn Asn Phe Gln Leu Ile Thr Gly Thr Glu Pro Asp Thr Ile Glu Ala
 65 70 75 80
 Ser Asn Phe Gln Leu Asp Arg Lys Thr Arg Phe Ile Ile His Gly Phe
 85 90 95
 Leu Asp Lys Ala Glu Asp Ser Trp Pro Ser Asp Met Cys Lys Lys Met
 100 105 110
 Phe Glu Val Glu Lys Val Asn Cys Ile Cys Val Asp Trp Arg His Gly
 115 120 125
 Ser Arg Ala Met Tyr Thr Gln Ala Val Gln Asn Ile Arg Val Val Gly

130	135	140
Ala Glu Thr Ala Phe Leu Ile Gln Ala Leu Ser Thr Gln Leu Gly Tyr		
145	150	155
Ser Leu Glu Asp Val His Val Ile Gly His Ser Leu Gly Ala His Thr		160
	165	170
Ala Ala Glu Ala Gly Arg Arg Leu Gly Gly Arg Val Gly Arg Ile Thr		175
	180	185
Gly Leu Asp Pro Ala Gly Pro Cys Phe Gln Asp Glu Pro Glu Glu Val		190
	195	200
Arg Leu Asp Pro Ser Asp Ala Val Phe Val Asp Val Ile His Thr Asp		205
	210	215
Ser Ser Pro Ile Val Pro Ser Leu Gly Phe Gly Met Ser Gln Lys Val		220
225	230	235
Gly His Leu Asp Phe Phe Pro Asn Gly Gly Lys Glu Met Pro Gly Cys		240
	245	250
Lys Lys Asn Val Leu Ser Thr Ile Thr Asp Ile Asp Gly Ile Trp Glu		255
	260	265
Gly Ile Gly Gly Phe Val Ser Cys Asn His Leu Arg Ser Phe Glu Tyr		270
	275	280
Tyr Ser Ser Ser Val Leu Asn Pro Asp Gly Phe Leu Gly Tyr Pro Cys		285
	290	295
Ala Ser Tyr Asp Glu Phe Gln Glu Ser Lys Cys Phe Pro Cys Pro Ala		300
305	310	315
Glu Gly Cys Pro Lys Met Gly His Tyr Ala Asp Gln Phe Lys Gly Lys		320
	325	330
Thr Ser Ala Val Glu Gln Thr Phe Phe Leu Asn Thr Gly Glu Ser Gly		335
	340	345
Asn Phe Thr Ser Trp Arg Tyr Lys Val Ser Val Thr Leu Ser Gly Lys		350
	355	360
Glu Lys Val Asn Gly Tyr Ile Arg Ile Ala Leu Tyr Gly Ser Asn Glu		365
	370	375
Asn Ser Lys Gln Tyr Glu Ile Phe Lys Gly Ser Leu Lys Pro Asp Ala		380
385	390	395
Ser His Thr Cys Ala Ile Asp Val Asp Phe Asn Val Gly Lys Ile Gln		400
	405	410
Lys Val Lys Phe Leu Trp Asn Lys Arg Gly Ile Asn Leu Ser Glu Pro		415
	420	425
Lys Leu Gly Ala Ser Gln Ile Thr Val Gln Ser Gly Glu Asp Gly Thr		430
	435	440
Glu Tyr Asn Phe Cys Ser Ser Asp Thr Val Glu Glu Asn Val Leu Gln		445
450	455	460

Ser Leu Tyr Pro Cys

465

<210> 94

<211> 465

<212> PRT

<213> Homo sapiens

<220>

<221> Triacylglycerol lipase, pancreatic precursor

<222> (1)..(465)

<223> Accession NO: as of 29 August 2003: P16233

<400> 94

Met	Leu	Pro	Leu	Trp	Thr	Leu	Ser	Leu	Leu	Leu	Gly	Ala	Val	Ala	Gly
1				5					10					15	
Lys	Glu	Val	Cys	Tyr	Glu	Arg	Leu	Gly	Cys	Phe	Ser	Asp	Asp	Ser	Pro
			20					25					30		
Trp	Ser	Gly	Ile	Thr	Glu	Arg	Pro	Leu	His	Ile	Leu	Pro	Trp	Ser	Pro
		35					40				45				
Lys	Asp	Val	Asn	Thr	Arg	Phe	Leu	Leu	Tyr	Thr	Asn	Glu	Asn	Pro	Asn
	50					55					60				
Asn	Phe	Gln	Glu	Val	Ala	Ala	Asp	Ser	Ser	Ser	Ile	Ser	Gly	Ser	Asn
65					70					75				80	
Phe	Lys	Thr	Asn	Arg	Lys	Thr	Arg	Phe	Ile	Ile	His	Gly	Phe	Ile	Asp
			85					90					95		
Lys	Gly	Glu	Glu	Asn	Trp	Leu	Ala	Asn	Val	Cys	Lys	Asn	Leu	Phe	Lys
			100					105					110		
Val	Glu	Ser	Val	Asn	Cys	Ile	Cys	Val	Asp	Trp	Lys	Gly	Gly	Ser	Arg
		115					120					125			
Thr	Gly	Tyr	Thr	Gln	Ala	Ser	Gln	Asn	Ile	Arg	Ile	Val	Gly	Ala	Glu
	130					135					140				
Val	Ala	Tyr	Phe	Val	Glu	Phe	Leu	Gln	Ser	Ala	Phe	Gly	Tyr	Ser	Pro
145					150					155				160	
Ser	Asn	Val	His	Val	Ile	Gly	His	Ser	Leu	Gly	Ala	His	Ala	Ala	Gly
			165					170					175		
Glu	Ala	Gly	Arg	Arg	Thr	Asn	Gly	Thr	Ile	Gly	Arg	Ile	Thr	Gly	Leu
			180				185						190		
Asp	Pro	Ala	Glu	Pro	Cys	Phe	Gln	Gly	Thr	Pro	Glu	Leu	Val	Arg	Leu
	195						200					205			
Asp	Pro	Ser	Asp	Ala	Lys	Phe	Val	Asp	Val	Ile	His	Thr	Asp	Gly	Ala

210		215		220	
Pro	Ile	Val	Pro	Asn	Leu
225		230		235	240
Leu	Asp	Phe	Phe	Pro	Asn
	245		250		255
Asn	Ile	Leu	Ser	Gln	Ile
	260		265		270
Arg	Asp	Phe	Ala	Ala	Cys
	275		280		285
Asp	Ser	Ile	Val	Asn	Pro
290		295		300	
Tyr	Asn	Val	Phe	Thr	Ala
305		310		315	320
Cys	Pro	Gln	Met	Gly	His
	325		330		335
Asp	Val	Gly	Gln	Lys	Phe
	340		345		350
Ala	Arg	Trp	Arg	Tyr	Lys
355		360		365	
Thr	Gly	His	Ile	Leu	Val
370		375		380	
Gln	Tyr	Glu	Ile	Phe	Lys
385		390		395	400
Asn	Glu	Phe	Asp	Ser	Asp
	405		410		415
Phe	Ile	Trp	Tyr	Asn	Asn
	420		425		430
Ala	Ser	Lys	Ile	Ile	Val
435		440		445	
Cys	Ser	Pro	Glu	Thr	Val
450		455		460	
Cys					
465					

<210> 95
 <211> 572
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Dihydropyrimidinase related protein-2

<222> (1) .. (572)

<223> Accession NO: as of 29 August 2003: Q16555

<400> 95

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Leu Leu Ile Lys Gly Gly Lys Ile Val Asn Asp Asp Gln Ser Phe Tyr
          20           25           30
Ala Asp Ile Tyr Met Glu Asp Gly Leu Ile Lys Gln Ile Gly Glu Asn
          35           40           45
Leu Ile Val Pro Gly Gly Val Lys Thr Ile Glu Ala His Ser Arg Met
          50           55           60
Val Ile Pro Gly Gly Ile Asp Val His Thr Arg Phe Gln Met Pro Asp
65           70           75           80
Gln Gly Met Thr Ser Ala Asp Asp Phe Phe Gln Gly Thr Lys Ala Ala
          85           90           95
Leu Ala Gly Gly Thr Thr Met Ile Ile Asp His Val Val Pro Glu Pro
          100          105          110
Gly Thr Ser Leu Leu Ala Ala Phe Asp Gln Trp Arg Glu Trp Ala Asp
          115          120          125
Ser Lys Ser Cys Cys Asp Tyr Ser Leu His Val Asp Ile Ser Glu Trp
          130          135          140
His Lys Gly Ile Gln Glu Glu Met Glu Ala Leu Val Lys Asp His Gly
145           150           155           160
Val Asn Ser Phe Leu Val Tyr Met Ala Phe Lys Asp Arg Phe Gln Leu
          165          170          175
Thr Asp Cys Gln Ile Tyr Glu Val Leu Ser Val Ile Arg Asp Ile Gly
          180          185          190
Ala Ile Ala Gln Val His Ala Glu Asn Gly Asp Ile Ile Ala Glu Glu
          195          200          205
Gln Gln Arg Ile Leu Asp Leu Gly Ile Thr Gly Pro Glu Gly His Val
          210          215          220
Leu Ser Arg Pro Glu Glu Val Glu Ala Glu Ala Val Asn Arg Ala Ile
225           230           235           240
Thr Ile Ala Asn Gln Thr Asn Cys Pro Leu Tyr Ile Thr Lys Val Met
          245          250          255
Ser Lys Ser Ser Ala Glu Val Ile Ala Gln Ala Arg Lys Lys Gly Thr
          260          265          270
Val Val Tyr Gly Glu Pro Ile Thr Ala Ser Leu Gly Thr Asp Gly Ser
          275          280          285
His Tyr Trp Ser Lys Asn Trp Ala Lys Ala Ala Ala Phe Val Thr Ser
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290		295		300											
Pro	Pro	Leu	Ser	Pro	Asp	Pro	Thr	Thr	Pro	Asp	Phe	Leu	Asn	Ser	Leu
305				310					315						320
Leu	Ser	Cys	Gly	Asp	Leu	Gln	Val	Thr	Gly	Ser	Ala	His	Cys	Thr	Phe
			325						330					335	
Asn	Thr	Ala	Gln	Lys	Ala	Val	Gly	Lys	Asp	Asn	Phe	Thr	Leu	Ile	Pro
		340						345					350		
Glu	Gly	Thr	Asn	Gly	Thr	Glu	Glu	Arg	Met	Ser	Val	Ile	Trp	Asp	Lys
	355						360					365			
Ala	Val	Val	Thr	Gly	Lys	Met	Asp	Glu	Asn	Gln	Phe	Val	Ala	Val	Thr
370					375						380				
Ser	Thr	Asn	Ala	Ala	Lys	Val	Phe	Asn	Leu	Tyr	Pro	Arg	Lys	Gly	Arg
385				390					395					400	
Ile	Ala	Val	Gly	Ser	Asp	Ala	Asp	Leu	Val	Ile	Trp	Asp	Pro	Asp	Ser
			405					410						415	
Val	Lys	Thr	Ile	Ser	Ala	Lys	Thr	His	Asn	Ser	Ser	Leu	Glu	Tyr	Asn
		420					425					430			
Ile	Phe	Glu	Gly	Met	Glu	Cys	Arg	Gly	Ser	Pro	Leu	Val	Val	Ile	Ser
	435					440					445				
Gln	Gly	Lys	Ile	Val	Leu	Glu	Asp	Gly	Thr	Leu	His	Val	Thr	Glu	Gly
450					455					460					
Ser	Gly	Arg	Tyr	Ile	Pro	Arg	Lys	Pro	Phe	Pro	Asp	Phe	Val	Tyr	Lys
465				470					475					480	
Arg	Ile	Lys	Ala	Arg	Ser	Arg	Leu	Ala	Glu	Leu	Arg	Gly	Val	Pro	Arg
		485					490				495				
Gly	Leu	Tyr	Asp	Gly	Pro	Val	Cys	Glu	Val	Ser	Val	Thr	Pro	Lys	Thr
	500						505				510				
Val	Thr	Pro	Ala	Ser	Ser	Ala	Lys	Thr	Ser	Pro	Ala	Lys	Gln	Gln	Ala
	515						520				525				
Pro	Pro	Val	Arg	Asn	Leu	His	Gln	Ser	Gly	Phe	Ser	Leu	Ser	Gly	Ala
	530					535				540					
Gln	Ile	Asp	Asp	Asn	Ile	Pro	Arg	Arg	Thr	Thr	Gln	Arg	Ile	Val	Ala
545				550					555				560		
Pro	Pro	Gly	Gly	Arg	Ala	Asn	Ile	Thr	Ser	Leu	Gly				
		325			570										

<210> 96
 <211> 500
 <212> PRT
 <213> Homo sapiens

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<221> 4-aminobutyrate aminotransferase, mitochondrial precursor
<222> (1)..(500)
<223> Accession NO: as of 29 August 2003: P80404
<400> 96
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- 172 -

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290	295	300
Ser Asp Asp Phe Phe Arg Lys Leu Arg Asp Ile Ala Arg Lys His Cys		
305	310	315
Cys Ala Phe Leu Val Asp Glu Val Gln Thr Gly Gly Gly Cys Thr Gly		
325	330	335
Lys Phe Trp Ala His Glu His Trp Gly Leu Asp Asp Pro Ala Asp Val		
340	345	350
Met Thr Phe Ser Lys Lys Met Met Thr Gly Gly Phe Phe Leu Lys Glu		
355	360	365
Glu Phe Arg Pro Asn Ala Pro Tyr Arg Ile Phe Asn Thr Trp Leu Gly		
370	375	380
Asp Pro Ser Lys Asn Leu Leu Leu Ala Glu Val Ile Asn Ile Ile Lys		
385	390	395
Arg Glu Asp Leu Leu Asn Asn Ala Ala His Ala Gly Lys Ala Leu Leu		
405	410	415
Thr Gly Leu Leu Asp Leu Gln Ala Arg Tyr Pro Gln Phe Ile Ser Arg		
420	425	430
Val Arg Gly Arg Gly Thr Phe Cys Ser Phe Asp Thr Pro Asp Asp Ser		
435	440	445
Ile Arg Asn Lys Leu Ile Leu Ile Ala Arg Asn Lys Gly Val Val Leu		
450	455	460
Gly Gly Cys Gly Asp Lys Ser Ile Arg Phe Arg Pro Thr Leu Val Phe		
465	470	475
Arg Asp His His Ala His Leu Phe Leu Asn Ile Phe Ser Asp Ile Leu		
485	490	495
Ala Asp Phe Lys		
500		

<210> 97
 <211> 423
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Glycine amidiontransferase, mitochondrial precursor
 <222> (1)..(423)
 <223> Accession NO: as of 29 August 2003: P50440
 <400> 97

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Val	His	Tyr	Ile	Gly	Ser	Arg	Leu	Gly	Arg	Thr	Leu	Thr	Gly	Trp	Val	20	25	30	
Gln	Arg	Thr	Phe	Gln	Ser	Thr	Gln	Ala	Ala	Thr	Ala	Ser	Ser	Arg	Asn	35	40	45	
Ser	Cys	Ala	Ala	Asp	Asp	Lys	Ala	Thr	Glu	Pro	Leu	Pro	Lys	Asp	Cys	50	55	60	
Pro	Val	Ser	Ser	Tyr	Asn	Glu	Trp	Asp	Pro	Leu	Glu	Glu	Val	Ile	Val	65	70	75	80
Gly	Arg	Ala	Glu	Asn	Ala	Cys	Val	Pro	Pro	Phe	Thr	Ile	Glu	Val	Lys	85	90	95	
Ala	Asn	Thr	Tyr	Glu	Lys	Tyr	Trp	Pro	Phe	Tyr	Gln	Lys	Gln	Gly	Gly	100	105	110	
His	Tyr	Phe	Pro	Lys	Asp	His	Leu	Lys	Lys	Ala	Val	Ala	Glu	Ile	Glu	115	120	125	
Glu	Met	Cys	Asn	Ile	Leu	Lys	Thr	Glu	Gly	Val	Thr	Val	Arg	Arg	Pro	130	135	140	
Asp	Pro	Ile	Asp	Trp	Ser	Leu	Lys	Tyr	Lys	Thr	Pro	Asp	Phe	Glu	Ser	145	150	155	160
Thr	Gly	Leu	Tyr	Ser	Ala	Met	Pro	Arg	Asp	Ile	Leu	Ile	Val	Val	Gly	165	170	175	
Asn	Glu	Ile	Ile	Glu	Ala	Pro	Met	Ala	Trp	Arg	Ser	Arg	Phe	Phe	Glu	180	185	190	
Tyr	Arg	Ala	Tyr	Arg	Ser	Ile	Ile	Lys	Asp	Tyr	Phe	His	Arg	Gly	Ala	195	200	205	
Lys	Trp	Thr	Thr	Ala	Pro	Lys	Pro	Thr	Met	Ala	Asp	Glu	Leu	Tyr	Asn	210	215	220	
Gln	Asp	Tyr	Pro	Ile	His	Ser	Val	Glu	Asp	Arg	His	Lys	Leu	Ala	Ala	225	230	235	240
Gln	Gly	Lys	Phe	Val	Thr	Thr	Glu	Phe	Glu	Pro	Cys	Phe	Asp	Ala	Ala	245	250	255	
Asp	Phe	Ile	Arg	Ala	Gly	Arg	Asp	Ile	Phe	Ala	Gln	Arg	Ser	Gln	Val	260	265	270	
Thr	Asn	Tyr	Leu	Gly	Ile	Glu	Trp	Met	Arg	Arg	His	Leu	Ala	Pro	Asp	275	280	285	
Tyr	Arg	Val	His	Ile	Ile	Ser	Phe	Lys	Asp	Pro	Asn	Pro	Met	His	Ile	290	295	300	
Asp	Ala	Thr	Phe	Asn	Ile	Ile	Gly	Pro	Gly	Ile	Val	Leu	Ser	Asn	Pro	305	310	315	320
Asp	Arg	Pro	Cys	His	Gln	Ile	Asp	Leu	Phe	Lys	Lys	Ala	Gly	Trp	Thr				

Met	Lys	Leu	Ser	Leu	Val	Ala	Ala	Met	Leu	Leu	Leu	Leu	Leu	Ser	Ala	1	5	10	15
Ala	Arg	Ala	Lys	Glu	Glu	Asp	Met	Gly	Thr	Val	Val	Ala	Ile	His	Leu	20	25	30	
Gly	Thr	Thr	Tyr	Pro	Cys	Val	Gly	Val	Phe	Lys	Asn	Gly	Arg	Met	Glu	35	40	45	
Ile	Ile	Ala	Asn	Asp	Gln	Gly	Asn	Arg	Ile	Met	Pro	Ser	Tyr	Val	Ala	50	55	60	
Phe	Thr	Pro	Glu	Gly	Glu	Cys	Leu	Ile	Gly	Asp	Ala	Ala	Lys	Asn	Gln	65	70	75	80
Leu	Thr	Ser	Asn	Pro	Lys	Asn	Thr	Val	Phe	Asp	Ala	Lys	Arg	Leu	Ile	85	90	95	
Gly	Arg	Arg	Trp	His	Asp	Pro	Ser	Val	Gln	Gln	Asp	Ile	Glu	Phe	Leu	100	105	110	
Pro	Phe	Lys	Val	Val	Glu	Lys	Asn	Thr	Lys	Ser	Tyr	Ile	Gln	Ile	Asp	115	120	125	
Val	Gly	Gly	Gly	Gln	Thr	Lys	Thr	Phe	Ala	Pro	Lys	Glu	Ile	Ser	Ala	130	135	140	
Met	Val	Leu	Thr	Lys	Met	Lys	Glu	Asn	Ala	Glu	Ala	Tyr	Leu	Gly	Lys	145	150	155	160
Val	Thr	His	Ala	Val	Val	Thr	Ala	Pro	Ala	Tyr	Phe	Asn	Asp	Ala	Gln	165	170	175	
Cys	Gln	Ala	Thr	Lys	Asp	Ala	Gly	Thr	Ile	Ala	Asp	Leu	Asn	Val	Met	180	185	190	
Arg	Ile	Ile	Asn	Lys	Pro	Thr	Ala	Ala	Ala	Ile	Ala	Tyr	Gly	Leu	Asp	195	200	205	
Lys	Arg	Glu	Gly	Glu	Lys	Asn	Ile	Leu	Val	Phe	Asp	Leu	Gly	Gly	Gly	210	215	220	
Thr	Phe	Asp	Val	Ser	Leu	Leu	Thr	Ile	Asp	Asn	Gly	Val	Phe	Lys	Val	225	230	235	240
Val	Ala	Thr	Asn	Gly	Asp	Thr	Tyr	Leu	Gly	Gly	Glu	Asp	Phe	Asp	Gln	245	250	255	
Arg	Val	Met	Glu	His	Phe	Ile	Lys	Leu	Tyr	Lys	Lys	Lys	Thr	Gly	Lys	260	265	270	
Asp	Val	Arg	Lys	Asp	Asn	Arg	Ala	Val	Gln	Lys	Leu	Trp	Arg	Lys	Val	275	280	285	
Glu	Lys	Ala	Lys	Arg	Ala	Leu	Ser	Ser	Gln	His	Gln	Ala	Xaa	Val	Ile	290	295	300	
Glu	Ile	Glu	Ser	Phe	Tyr	Glu	Gly	Glu	Asp	Phe	Ser	Glu	Thr	Leu	Thr	305	310	315	320
Gln	Ala	Lys	Phe	Glu	Glu	Leu	Asn	Xaa	Asp	Leu	Phe	Gln	Ser	Thr	Met				

	325		330		335
Lys Pro Ser Gln Arg Ser Val Xaa Lys Val Leu Glu Asp Ser Asp Leu					
	340		345		350
Lys Lys Ser Asp Ile Asp Glu Thr Val Leu Val Gly Gly Phe Thr Gln					
	355		360		365
Ile Pro Lys Ile Gln Gln Leu Val Lys Glu Phe Phe Asn Gly Lys Glu					
	370		375		380
Leu Ser Arg Gly Ile Ser Pro Tyr Glu Ala Val Ala Tyr Gly Ala Ala					
385		390		395	400
Val Gln Ala Gly Val Leu Ser Gly Asp Gln Asp Thr Gly Asp Leu Val					
	405		410		415
Leu Leu Asp Ile Cys Pro Leu Thr Leu Gly Ile Glu Thr Val Gly Gly					
	420		425		430
Val Met Thr Lys Leu Ile Pro Arg Asn Thr Val Val Pro Thr Lys Lys					
	435		440		445
Ser Gln Ile Phe Ser Thr Ala Phe Asp Asn Gln Pro Xaa Thr Ile Lys					
	450		455		460
Val Tyr Glu Gly Lys Gln Pro Leu Thr Lys Asp Asn His Leu Leu Gly					
465		470		475	480
Thr Phe Asp Leu Thr Gly Ile Pro Pro Ala Pro Cys Gly Val Pro Gln					
	485		490		495
Ile Glu Val Thr Phe Glu Met Asp Val Ser Asp Ile Leu Gln Val Thr					
	500		505		510
Ala Lys Asp Lys Gly Thr Arg Tyr Lys Asn Lys Ile Thr Ile Thr Asn					
	515		520		525
Asp Gln Asn His Leu Thr Pro Glu Asp Ile Glu Arg Met Val Asn Asp					
	530		535		540
Ala Glu Lys Phe Ala Glu Glu Asp Lys Lys Leu Lys Glu Cys Thr Asp					
545		550		555	560
Thr Arg Asn Glu Leu Glu Ser Tyr Ala Tyr Ser Leu Lys Asn Gln Ile					
	565		570		575
Gly Asp Lys Glu Lys Leu Gly Gly Lys Leu Ser Ser Glu Asp Lys Glu					
	580		585		590
Thr Met Glu Lys Thr Val Glu Glu Lys Thr Glu Trp Leu Glu Ser His					
	595		600		605
Gln Asp Ala Asp Thr Glu Asp Phe Lys Ala Lys Lys Lys Glu Leu Glu					
	610		615		620
Glu Ile Val Gln Pro Ile Ile Ser Lys Leu Tyr Gly Ser Ala Gly Pro					
625		630		635	640
Pro Pro Thr Gly Glu Glu Asp Thr Ala Glu Lys Asp Glu Leu					
	325		650		

<210> 99
 <211> 325
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Eukaryotic translation initiation factor 3 subunit 2
 <222> (1)..(325)
 <223> Accession NO: as of 29 August 2003: Q13347
 <400> 99

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Met Lys Pro Ile Leu Leu Gln Gly His Glu Arg Ser Ile Thr Gln Ile
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Lys Tyr Asn Arg Glu Gly Asp Leu Leu Phe Thr Val Ala Lys Asp Pro
             20             25             30
Ile Val Asn Val Trp Tyr Ser Val Asn Gly Glu Arg Leu Gly Thr Tyr
             35             40             45
Met Gly His Thr Gly Ala Val Trp Cys Val Asp Ala Asp Trp Asp Thr
             50             55             60
Lys His Val Leu Thr Gly Ser Ala Asp Asn Ser Cys Arg Leu Trp Asp
65             70             75             80
Cys Glu Thr Gly Lys Gln Leu Ala Leu Leu Lys Thr Asn Ser Ala Val
             85             90             95
Arg Thr Cys Gly Phe Asp Phe Gly Gly Asn Ile Ile Met Phe Ser Thr
             100            105            110
Asp Lys Gln Met Gly Tyr Gln Cys Phe Val Ser Phe Phe Asp Leu Arg
             115            120            125
Asp Pro Ser Gln Ile Asp Asn Asn Glu Pro Tyr Met Lys Ile Pro Cys
             130            135            140
Asn Asp Ser Lys Ile Thr Ser Ala Val Trp Gly Pro Leu Gly Glu Cys
145            150            155            160
Ile Ile Ala Gly His Glu Ser Gly Glu Leu Asn Gln Tyr Ser Ala Lys
             165            170            175
Ser Gly Glu Val Leu Val Asn Val Lys Glu His Ser Arg Gln Ile Asn
             180            185            190
Asp Ile Gln Leu Ser Arg Asp Met Thr Met Phe Val Thr Ala Ser Lys
             195            200            205
Asp Asn Thr Ala Lys Leu Phe Asp Ser Thr Thr Leu Glu His Gln Lys
             210            215            220
Thr Phe Arg Thr Glu Arg Pro Val Asn Ser Ala Ala Leu Ser Pro Asn

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225 230 235 240
 Tyr Asp His Val Val Leu Gly Gly Gly Gln Glu Ala Met Asp Val Thr
 245 250 255
 Thr Thr Ser Thr Arg Ile Gly Lys Phe Glu Ala Arg Phe Phe His Leu
 260 265 270
 Ala Phe Glu Glu Glu Phe Gly Arg Val Lys Gly His Phe Gly Pro Ile
 275 280 285
 Asn Ser Val Ala Phe His Pro Asp Gly Lys Ser Tyr Ser Ser Gly Gly
 290 295 300
 Glu Asp Gly Tyr Val Arg Ile His Tyr Phe Asp Pro Gln Tyr Phe Glu
 305 310 315 320
 Phe Glu Phe Glu Ala
 325

<210> 100
 <211> 572
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Dihydropyrimidinase related protein-2
 <222> (1)..(572)
 <223> Accession NO: as of 29 August 2003: Q16555
 <400> 100

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 Ala Asp Ile Tyr Met Glu Asp Gly Leu Ile Lys Gln Ile Gly Glu Asn
 35 40 45
 Leu Ile Val Pro Gly Gly Val Lys Thr Ile Glu Ala His Ser Arg Met
 50 55 60
 Val Ile Pro Gly Gly Ile Asp Val His Thr Arg Phe Gln Met Pro Asp
 65 70 75 80
 Gln Gly Met Thr Ser Ala Asp Asp Phe Phe Gln Gly Thr Lys Ala Ala
 85 90 95
 Leu Ala Gly Gly Thr Thr Met Ile Ile Asp His Val Val Pro Glu Pro
 100 105 110
 Gly Thr Ser Leu Leu Ala Ala Phe Asp Gln Trp Arg Glu Trp Ala Asp
 115 120 125

Ser Lys Ser Cys Cys Asp Tyr Ser Leu His Val Asp Ile Ser Glu Trp
 130 135 140
 His Lys Gly Ile Gln Glu Glu Met Glu Ala Leu Val Lys Asp His Gly
 145 150 155 160
 Val Asn Ser Phe Leu Val Tyr Met Ala Phe Lys Asp Arg Phe Gln Leu
 165 170 175
 Thr Asp Cys Gln Ile Tyr Glu Val Leu Ser Val Ile Arg Asp Ile Gly
 180 185 190
 Ala Ile Ala Gln Val His Ala Glu Asn Gly Asp Ile Ile Ala Glu Glu
 195 200 205
 Gln Gln Arg Ile Leu Asp Leu Gly Ile Thr Gly Pro Glu Gly His Val
 210 215 220
 Leu Ser Arg Pro Glu Glu Val Glu Ala Glu Ala Val Asn Arg Ala Ile
 225 230 235 240
 Thr Ile Ala Asn Gln Thr Asn Cys Pro Leu Tyr Ile Thr Lys Val Met
 245 250 255
 Ser Lys Ser Ser Ala Glu Val Ile Ala Gln Ala Arg Lys Lys Gly Thr
 260 265 270
 Val Val Tyr Gly Glu Pro Ile Thr Ala Ser Leu Gly Thr Asp Gly Ser
 275 280 285
 His Tyr Trp Ser Lys Asn Trp Ala Lys Ala Ala Ala Phe Val Thr Ser
 290 295 300
 Pro Pro Leu Ser Pro Asp Pro Thr Thr Pro Asp Phe Leu Asn Ser Leu
 305 310 315 320
 Leu Ser Cys Gly Asp Leu Gln Val Thr Gly Ser Ala His Cys Thr Phe
 325 330 335
 Asn Thr Ala Gln Lys Ala Val Gly Lys Asp Asn Phe Thr Leu Ile Pro
 340 345 350
 Glu Gly Thr Asn Gly Thr Glu Glu Arg Met Ser Val Ile Trp Asp Lys
 355 360 365
 Ala Val Val Thr Gly Lys Met Asp Glu Asn Gln Phe Val Ala Val Thr
 370 375 380
 Ser Thr Asn Ala Ala Lys Val Phe Asn Leu Tyr Pro Arg Lys Gly Arg
 385 390 395 400
 Ile Ala Val Gly Ser Asp Ala Asp Leu Val Ile Trp Asp Pro Asp Ser
 405 410 415
 Val Lys Thr Ile Ser Ala Lys Thr His Asn Ser Ser Leu Glu Tyr Asn
 420 425 430
 Ile Phe Glu Gly Met Glu Cys Arg Gly Ser Pro Leu Val Val Ile Ser
 435 440 445
 Gln Gly Lys Ile Val Leu Glu Asp Gly Thr Leu His Val Thr Glu Gly

450 455 460
 Ser Gly Arg Tyr Ile Pro Arg Lys Pro Phe Pro Asp Phe Val Tyr Lys
 465 470 475 480
 Arg Ile Lys Ala Arg Ser Arg Leu Ala Glu Leu Arg Gly Val Pro Arg
 485 490 495
 Gly Leu Tyr Asp Gly Pro Val Cys Glu Val Ser Val Thr Pro Lys Thr
 500 505 510
 Val Thr Pro Ala Ser Ser Ala Lys Thr Ser Pro Ala Lys Gln Gln Ala
 515 520 525
 Pro Pro Val Arg Asn Leu His Gln Ser Gly Phe Ser Leu Ser Gly Ala
 530 535 540
 Gln Ile Asp Asp Asn Ile Pro Arg Arg Thr Thr Gln Arg Ile Val Ala
 545 550 555 560
 Pro Pro Gly Gly Arg Ala Asn Ile Thr Ser Leu Gly
 325 570

<210> 101
 <211> 561
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Phosphoglucomutase (EC 5.4.2.2) (Glucose phosphomutase) (PGM)
 <222> (1)..(561)
 <223> Accession NO: as of 29 August 2003: P36871
 <400> 101

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 20 25 30
 Asn Tyr Ala Glu Asn Phe Ile Gln Ser Ile Ile Ser Thr Val Glu Pro
 35 40 45
 Ala Gln Arg Gln Glu Ala Thr Leu Val Val Gly Gly Asp Gly Arg Phe
 50 55 60
 Tyr Met Lys Glu Ala Ile Gln Leu Ile Ala Arg Ile Ala Ala Ala Asn
 65 70 75 80
 Gly Ile Gly Arg Leu Val Ile Gly Gln Asn Gly Ile Leu Ser Thr Pro
 85 90 95
 Ala Val Ser Cys Ile Ile Arg Lys Ile Lys Ala Ile Gly Gly Ile Ile
 100 105 110

Leu Thr Ala Ser His Asn Pro Gly Gly Pro Asn Gly Asp Phe Gly Ile
 115 120 125
 Lys Phe Asn Ile Ser Asn Gly Gly Pro Ala Pro Glu Ala Ile Thr Asp
 130 135 140
 Lys Ile Phe Gln Ile Ser Lys Thr Ile Glu Glu Tyr Ala Val Cys Pro
 145 150 155 160
 Asp Leu Lys Val Asp Leu Gly Val Leu Gly Lys Gln Gln Phe Asp Leu
 165 170 175
 Glu Asn Lys Phe Lys Pro Phe Thr Val Glu Ile Val Asp Ser Val Glu
 180 185 190
 Ala Tyr Ala Thr Met Leu Arg Ser Ile Phe Asp Phe Ser Ala Leu Lys
 195 200 205
 Glu Leu Leu Ser Gly Pro Asn Arg Leu Lys Ile Arg Ile Asp Ala Met
 210 215 220
 His Gly Val Val Gly Pro Tyr Val Lys Lys Ile Leu Cys Glu Glu Leu
 225 230 235 240
 Gly Ala Pro Ala Asn Ser Ala Val Asn Cys Val Pro Leu Glu Asp Phe
 245 250 255
 Gly Gly His His Pro Asp Pro Asn Leu Thr Tyr Ala Ala Asp Leu Val
 260 265 270
 Glu Thr Met Lys Ser Gly Glu His Asp Phe Gly Ala Ala Phe Asp Gly
 275 280 285
 Asp Gly Asp Arg Asn Met Ile Leu Gly Lys His Gly Phe Phe Val Asn
 290 295 300
 Pro Ser Asp Ser Val Ala Val Ile Ala Ala Asn Ile Phe Ser Ile Pro
 305 310 315 320
 Tyr Phe Gln Gln Thr Gly Val Arg Gly Phe Ala Arg Ser Met Pro Thr
 325 330 335
 Ser Gly Ala Leu Asp Arg Val Ala Ser Ala Thr Lys Ile Ala Leu Tyr
 340 345 350
 Glu Thr Pro Thr Gly Trp Lys Phe Phe Gly Asn Leu Met Asp Ala Ser
 355 360 365
 Lys Leu Ser Leu Cys Gly Glu Glu Ser Phe Gly Thr Gly Ser Asp His
 370 375 380
 Ile Arg Glu Lys Asp Gly Leu Trp Ala Val Leu Ala Trp Leu Ser Ile
 385 390 395 400
 Leu Ala Thr Arg Lys Gln Ser Val Glu Asp Ile Leu Lys Asp His Trp
 405 410 415
 Gln Lys Tyr Gly Arg Asn Phe Phe Thr Arg Tyr Asp Tyr Glu Glu Val
 420 425 430
 Glu Ala Glu Gly Ala Asn Lys Met Met Lys Asp Leu Glu Ala Leu Met

435		440		445
Phe Asp Arg Ser Phe Val Gly Lys Gln Phe Ser Ala Asn Asp Lys Val				
450		455		460
Tyr Thr Val Glu Lys Ala Asp Asn Phe Glu Tyr Ser Asp Pro Val Asp				
465		470		480
Gly Ser Ile Ser Arg Asn Gln Gly Leu Arg Leu Ile Phe Thr Asp Gly				
	485		490	495
Ser Arg Ile Val Phe Arg Leu Ser Gly Thr Gly Ser Ala Gly Ala Thr				
	500		505	510
Ile Arg Leu Tyr Ile Asp Ser Tyr Glu Lys Asp Val Ala Lys Ile Asn				
	515		520	525
Gln Asp Pro Gln Val Met Leu Ala Pro Leu Ile Ser Ile Ala Leu Lys				
	530		535	540
Val Ser Gln Leu Gln Glu Arg Thr Gly Arg Thr Ala Pro Thr Val Ile				
545		550		560
Thr				

<210> 102
 <211> 263
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Proteasome subunit alpha type 1
 <222> (1)..(263)
 <223> Accession NO: as of 29 August 2003: P25786
 <400> 102

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Gly Arg Ile His Gln Ile Glu Tyr Ala Met Glu Ala Val Lys Gln Gly			
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Ser Ala Thr Val Gly Leu Lys Ser Lys Thr His Ala Val Leu Val Ala			
	35	40	45
Leu Lys Arg Ala Gln Ser Glu Leu Ala Ala His Gln Lys Lys Ile Leu			
	50	55	60
His Val Asp Asn His Ile Gly Ile Ser Ile Ala Gly Leu Thr Ala Asp			
65	70	75	80
Ala Arg Leu Leu Cys Asn Phe Met Arg Gln Glu Cys Leu Asp Ser Arg			
	85	90	95

Phe Val Phe Asp Arg Pro Leu Pro Val Ser Arg Leu Val Ser Leu Ile
100 105 110
Gly Ser Lys Thr Gln Ile Pro Thr Gln Arg Tyr Gly Arg Arg Pro Tyr
115 120 125
Gly Val Gly Leu Leu Ile Ala Gly Tyr Asp Asp Met Gly Pro His Ile
130 135 140
Phe Gln Thr Cys Pro Ser Ala Asn Tyr Phe Asp Cys Arg Ala Met Ser
145 150 155 160
Ile Gly Ala Arg Ser Gln Ser Ala Arg Thr Tyr Leu Glu Arg His Met
165 170 175
Ser Glu Phe Met Glu Cys Asn Leu Asn Glu Leu Val Lys His Gly Leu
180 185 190
Arg Ala Leu Arg Glu Thr Leu Pro Ala Glu Gln Asp Leu Thr Thr Lys
195 200 205
Asn Val Ser Ile Gly Ile Val Gly Lys Asp Leu Glu Phe Thr Ile Tyr
210 215 220
Asp Asp Asp Asp Val Ser Pro Phe Leu Glu Gly Leu Glu Glu Arg Pro
225 230 235 240
Gln Arg Lys Ala Gln Pro Ala Gln Pro Ala Asp Glu Pro Ala Glu Lys
245 250 255
Ala Asp Glu Pro Met Glu His
260

<210> 103
<211> 205
<212> PRT
<213> Homo sapiens
<220>
<221> Heat shock 27 kDa protein
<222> (1)..(205)
<223> Accession NO: as of 29 August 2003: P04792
<400> 103

Met Thr Glu Arg Arg Val Pro Phe Ser Leu Leu Arg Gly Pro Ser Trp
1 5 10 15
Asp Pro Phe Arg Asp Trp Tyr Pro His Ser Arg Leu Phe Asp Gln Ala
20 25 30
Phe Gly Leu Pro Arg Leu Pro Glu Glu Trp Ser Gln Trp Leu Gly Gly
35 40 45
Ser Ser Trp Pro Gly Tyr Val Arg Pro Leu Pro Pro Ala Ala Ile Glu

50		55		60											
Ser	Pro	Ala	Val	Ala	Ala	Pro	Ala	Tyr	Ser	Arg	Ala	Leu	Ser	Arg	Gln
65				70				75				80			
Leu	Ser	Ser	Gly	Val	Ser	Glu	Ile	Arg	His	Thr	Ala	Asp	Arg	Trp	Arg
			85					90				95			
Val	Ser	Leu	Asp	Val	Asn	His	Phe	Ala	Pro	Asp	Glu	Leu	Thr	Val	Lys
			100					105				110			
Thr	Lys	Asp	Gly	Val	Val	Glu	Ile	Thr	Gly	Lys	His	Glu	Glu	Arg	Gln
		115					120				125				
Asp	Glu	His	Gly	Tyr	Ile	Ser	Arg	Cys	Phe	Thr	Arg	Lys	Tyr	Thr	Leu
	130					135				140					
Pro	Pro	Gly	Val	Asp	Pro	Thr	Gln	Val	Ser	Ser	Ser	Leu	Ser	Pro	Glu
145				150				155				160			
Gly	Thr	Leu	Thr	Val	Glu	Ala	Pro	Met	Pro	Lys	Leu	Ala	Thr	Gln	Ser
			165					170				175			
Asn	Glu	Ile	Thr	Ile	Pro	Val	Thr	Phe	Glu	Ser	Arg	Ala	Gln	Leu	Gly
		180					185				190				
Gly	Pro	Glu	Ala	Ala	Lys	Ser	Asp	Glu	Thr	Ala	Ala	Lys			
	195					200				205					

<210> 104
 <211> 868
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Programmed cell death 6 interacting protein (Hp95)
 <222> (1)..(868)
 <223> Accession NO: as of 29 August 2003: Q8WUM4
 <400> 104

Met	Ala	Thr	Phe	Ile	Ser	Val	Gln	Leu	Lys	Lys	Thr	Ser	Glu	Val	Asp
1			5				10				15				
Leu	Ala	Lys	Pro	Leu	Val	Lys	Phe	Ile	Gln	Gln	Thr	Tyr	Pro	Ser	Gly
		20					25				30				
Gly	Glu	Glu	Gln	Ala	Gln	Tyr	Cys	Arg	Ala	Ala	Glu	Glu	Leu	Ser	Lys
	35					40				45					
Leu	Arg	Arg	Ala	Ala	Val	Gly	Arg	Pro	Leu	Asp	Lys	His	Glu	Gly	Ala
	50					55				60					
Leu	Glu	Thr	Leu	Leu	Arg	Tyr	Tyr	Asp	Gln	Ile	Cys	Ser	Ile	Glu	Pro
65				70				75				80			

Pro Thr Pro Pro Thr Pro Ala Pro Arg Thr Met Pro Pro Thr Lys Pro
 740 745 750
 Gln Pro Pro Ala Arg Pro Pro Pro Pro Val Leu Pro Ala Asn Arg Ala
 755 760 765
 Pro Ser Ala Thr Ala Pro Ser Pro Val Gly Ala Gly Thr Ala Ala Pro
 770 775 780
 Ala Pro Ser Gln Thr Pro Gly Ser Ala Pro Pro Pro Gln Ala Gln Gly
 785 790 795 800
 Pro Pro Tyr Pro Thr Tyr Pro Gly Tyr Pro Gly Tyr Cys Gln Met Pro
 805 810 815
 Met Pro Met Gly Tyr Asn Pro Tyr Ala Tyr Gly Gln Tyr Asn Met Pro
 820 825 830
 Tyr Pro Pro Val Tyr His Gln Ser Pro Gly Gln Ala Pro Tyr Pro Gly
 835 840 845
 Pro Gln Gln Pro Ser Tyr Pro Phe Pro Gln Pro Pro Gln Gln Ser Tyr
 850 855 860
 Tyr Pro Gln Gln
 865

<210> 105
 <211> 280
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Similar to four and a half LIM domains 3
 <222> (1)..(280)
 <223> Accession NO: as of 29 August 2003: Q9BVA2
 <400> 105

Met Ser Glu Ser Phe Asp Cys Ala Lys Cys Asn Glu Ser Leu Tyr Gly
 1 5 10 15
 Arg Lys Tyr Ile Gln Thr Asp Ser Gly Pro Tyr Cys Val Pro Cys Tyr
 20 25 30
 Asp Asn Thr Phe Ala Asn Thr Cys Ala Glu Cys Gln Gln Leu Ile Gly
 35 40 45
 His Asp Ser Arg Glu Leu Phe Tyr Glu Asp Arg His Phe His Glu Gly
 50 55 60
 Cys Phe Arg Cys Cys Arg Cys Gln Arg Ser Leu Ala Asp Glu Pro Phe
 65 70 75 80
 Thr Cys Gln Asp Ser Glu Leu Leu Cys Asn Asp Cys Tyr Cys Ser Ala

Asp Asn Thr Phe Ala Asn Thr Cys Ala Glu Cys Gln Gln Leu Ile Gly
 35 40 45
 His Asp Ser Arg Glu Leu Phe Tyr Glu Asp Arg His Phe His Glu Gly
 50 55 60
 Cys Phe Arg Cys Cys Arg Cys Gln Arg Ser Leu Ala Asp Glu Pro Phe
 65 70 75 80
 Thr Arg Gln Asp Ser Glu Leu Leu Cys Asn Asp Cys Tyr Cys Ser Ala
 85 90 95
 Phe Ser Ser Gln Cys Ser Ala Cys Gly Glu Thr Val Met Pro Gly Ser
 100 105 110
 Arg Lys Leu Glu Tyr Gly Gly Gln Thr Trp His Glu His Cys Phe Leu
 115 120 125
 Cys Ile Gly Cys Glu Gln Pro Leu Gly Ser Arg Pro Phe Val Pro Asp
 130 135 140
 Lys Gly Ala His Tyr Cys Val Pro Cys Tyr Glu Asn Asn Phe Ala Pro
 145 150 155 160
 Arg Cys Ala Arg Cys Thr Lys Thr Leu Thr Gln Gly Gly Leu Thr Tyr
 165 170 175
 Arg Asp Leu Pro Trp His Pro Lys Cys Leu Val Cys Thr Gly Cys Gln
 180 185 190
 Thr Pro Leu Ala Gly Gln Gln Phe Thr Ser Arg Asp Glu Asp Pro Tyr
 195 200 205
 Cys Val Ala Cys Phe Gly Glu Leu Phe Ala Pro Lys Cys Ser Ser Cys
 210 215 220
 Lys Arg Pro Ile Val Gly Leu Gly Gly Gly Lys Tyr Val Ser Phe Glu
 225 230 235 240
 Asp Arg His Trp His His Asn Cys Phe Thr Cys Asp Arg Cys Ser Asn
 245 250 255
 Ser Leu Val Gly Gln Gly Phe Val Pro Asp Gly Asp Gln Val Leu Cys
 260 265 270
 Gln Gly Cys Ser Gln Ala Gly Pro
 325 280

<210> 107
 <211> 133
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Cytochrome b5
 <222> (1)..(133)

<223> Accession NO: as of 29 August 2003: P00167

<400> 107

Ala Glu Gln Ser Asp Glu Ala Val Lys Tyr Tyr Thr Leu Glu Glu Ile
1 5 10 15
Gln Lys His Asn His Ser Lys Ser Thr Trp Leu Ile Leu His His Lys
20 25 30
Val Tyr Asp Leu Thr Lys Phe Leu Glu Glu His Pro Gly Gly Glu Glu
35 40 45
Val Leu Arg Glu Gln Ala Gly Gly Asp Ala Thr Glu Asn Phe Glu Asp
50 55 60
Val Gly His Ser Thr Asp Ala Arg Glu Met Ser Lys Thr Phe Ile Ile
65 70 75 80
Gly Glu Leu His Pro Asp Asp Arg Pro Lys Leu Asn Lys Pro Pro Glu
85 90 95
Thr Leu Ile Thr Thr Ile Asp Ser Ser Ser Ser Trp Trp Thr Asn Trp
100 105 110
Val Ile Pro Ala Ile Ser Ala Val Ala Val Ala Leu Met Tyr Arg Leu
115 120 125
Tyr Met Ala Glu Asp
130

<210> 108

<211> 175

<212> PRT

<213> Homo sapiens

<220>

<221> Pancreatitis-associated protein 1 precursor

<222> (1)..(175)

<223> Accession NO: as of 29 August 2003: Q06141

<400> 108

Met Leu Pro Pro Met Ala Leu Pro Ser Val Ser Trp Met Leu Leu Ser
1 5 10 15
Cys Leu Met Leu Leu Ser Gln Val Gln Gly Glu Glu Pro Gln Arg Glu
20 25 30
Leu Pro Ser Ala Arg Ile Arg Cys Pro Lys Gly Ser Lys Ala Tyr Gly
35 40 45
Ser His Cys Tyr Ala Leu Phe Leu Ser Pro Lys Ser Trp Thr Asp Ala
50 55 60

Asp	Leu	Ala	Cys	Gln	Lys	Arg	Pro	Ser	Gly	Asn	Leu	Val	Ser	Val	Leu
65					70					75					80
Ser	Gly	Ala	Glu	Gly	Ser	Phe	Val	Ser	Ser	Leu	Val	Lys	Ser	Ile	Gly
			85						90					95	
Asn	Ser	Tyr	Ser	Tyr	Val	Trp	Ile	Gly	Leu	His	Asp	Pro	Thr	Gln	Gly
			100					105					110		
Thr	Glu	Pro	Asn	Gly	Glu	Gly	Trp	Glu	Trp	Ser	Ser	Ser	Asp	Val	Met
		115					120					125			
Asn	Tyr	Phe	Ala	Trp	Glu	Arg	Asn	Pro	Ser	Thr	Ile	Ser	Ser	Pro	Gly
	130					135					140				
His	Cys	Ala	Ser	Leu	Ser	Arg	Ser	Thr	Ala	Phe	Leu	Arg	Trp	Lys	Asp
145				150					155					160	
Tyr	Asn	Cys	Asn	Val	Arg	Leu	Pro	Tyr	Val	Cys	Lys	Phe	Thr	Asp	
			165					170					175		

<210> 109
 <211> 1028
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Collagen alpha 1(VI) chain precursor
 <222> (1)..(1028)
 <223> Accession NO: as of 29 August 2003: P12109
 <400> 109

Met	Arg	Ala	Ala	Arg	Ala	Leu	Leu	Pro	Leu	Leu	Leu	Gln	Ala	Cys	Trp
1			5					10					15		
Thr	Ala	Ala	Gln	Asp	Glu	Pro	Glu	Thr	Pro	Arg	Ala	Val	Ala	Phe	Gln
			20				25					30			
Asp	Cys	Pro	Val	Asp	Leu	Phe	Phe	Val	Leu	Asp	Thr	Ser	Glu	Ser	Val
		35				40					45				
Ala	Leu	Arg	Leu	Lys	Pro	Tyr	Gly	Ala	Leu	Val	Asp	Lys	Val	Lys	Ser
	50				55				60						
Phe	Thr	Lys	Arg	Phe	Ile	Asp	Asn	Leu	Arg	Asp	Arg	Tyr	Tyr	Arg	Cys
65				70					75					80	
Asp	Arg	Asn	Leu	Val	Trp	Asn	Ala	Gly	Ala	Leu	His	Tyr	Ser	Asp	Glu
			85					90					95		
Val	Glu	Ile	Ile	Gln	Gly	Leu	Thr	Arg	Met	Pro	Gly	Gly	Arg	Asp	Ala
			100				105					110			
Leu	Lys	Ser	Ser	Val	Asp	Ala	Val	Lys	Tyr	Phe	Gly	Lys	Gly	Thr	Tyr

115		120		125
Thr Asp Cys Ala Ile Lys Lys Gly Leu Glu Gln Leu Leu Val Gly Gly				
130		135		140
Ser His Leu Lys Glu Asn Lys Tyr Leu Ile Val Val Thr Asp Gly His				
145		150		155
Pro Leu Glu Gly Tyr Lys Glu Pro Cys Gly Gly Leu Glu Asp Ala Val				
	165		170	175
Asn Glu Ala Lys His Leu Gly Val Lys Val Phe Ser Val Ala Ile Thr				
	180		185	190
Pro Asp His Leu Glu Pro Arg Leu Ser Ile Ile Ala Thr Asp His Thr				
	195		200	205
Tyr Arg Arg Asn Phe Thr Ala Ala Asp Trp Gly Gln Ser Arg Asp Ala				
210		215		220
Glu Glu Ala Ile Ser Gln Thr Ile Asp Thr Ile Val Asp Met Ile Lys				
225		230		235
Asn Asn Val Glu Gln Val Cys Cys Ser Phe Glu Cys Gln Pro Ala Arg				
	245		250	255
Gly Pro Pro Gly Leu Arg Gly Asp Pro Gly Phe Glu Gly Glu Arg Gly				
	260		265	270
Lys Pro Gly Leu Pro Gly Glu Lys Gly Glu Ala Gly Asp Pro Gly Arg				
	275		280	285
Pro Gly Asp Leu Gly Pro Val Gly Tyr Gln Gly Met Lys Gly Glu Lys				
	290		295	300
Gly Ser Arg Gly Glu Lys Gly Ser Arg Gly Pro Lys Gly Tyr Lys Gly				
305		310		315
Glu Lys Gly Lys Arg Gly Ile Asp Gly Val Asp Gly Val Lys Gly Glu				
	325		330	335
Met Gly Tyr Pro Gly Leu Pro Gly Cys Lys Gly Ser Pro Gly Phe Asp				
	340		345	350
Gly Ile Gln Gly Pro Pro Gly Pro Lys Gly Asp Pro Gly Ala Phe Gly				
	355		360	365
Leu Lys Gly Glu Lys Gly Glu Pro Gly Ala Asp Gly Glu Ala Gly Arg				
	370		375	380
Pro Gly Ala Arg Gly Pro Ser Gly Asp Glu Gly Pro Ala Gly Glu Pro				
385		390		395
Gly Pro Pro Gly Glu Lys Gly Glu Ala Gly Asp Glu Gly Asn Pro Gly				
	405		410	415
Pro Asp Gly Ala Pro Gly Glu Arg Gly Gly Pro Gly Glu Arg Gly Pro				
	420		425	430
Arg Gly Thr Pro Gly Pro Arg Gly Pro Arg Gly Asp Pro Gly Glu Ala				
	435		440	445

Gly Pro Gln Gly Asp Gln Gly Arg Glu Gly Pro Val Gly Val Pro Gly
 450 455 460
 Asp Pro Gly Glu Ala Gly Pro Ile Gly Pro Lys Gly Tyr Arg Gly Asp
 465 470 475 480
 Glu Gly Pro Pro Gly Ser Glu Gly Ala Arg Gly Ala Pro Gly Pro Ala
 485 490 495
 Gly Pro Pro Gly Asp Pro Gly Leu Met Gly Glu Arg Gly Glu Asp Gly
 500 505 510
 Pro Ala Gly Asn Gly Thr Glu Gly Phe Pro Gly Phe Pro Gly Tyr Pro
 515 520 525
 Gly Asn Arg Gly Ala Pro Gly Ile Asn Gly Thr Lys Gly Tyr Pro Gly
 530 535 540
 Leu Lys Gly Asp Glu Gly Glu Ala Gly Asp Pro Gly Asp Asp Asn Asn
 545 550 555 560
 Asp Ile Ala Pro Arg Gly Val Lys Gly Ala Lys Gly Tyr Arg Gly Pro
 565 570 575
 Glu Gly Pro Gln Gly Pro Pro Gly His Gln Gly Pro Pro Gly Pro Asp
 580 585 590
 Glu Cys Glu Ile Leu Asp Ile Ile Met Lys Met Cys Ser Cys Cys Glu
 595 600 605
 Cys Lys Cys Gly Pro Ile Asp Leu Leu Phe Val Leu Asp Ser Ser Glu
 610 615 620
 Ser Ile Gly Leu Gln Asn Phe Glu Ile Ala Lys Asp Phe Val Val Lys
 625 630 635 640
 Val Ile Asp Arg Leu Ser Arg Asp Glu Leu Val Lys Phe Glu Pro Gly
 645 650 655
 Gln Ser Tyr Ala Gly Val Val Gln Tyr Ser His Ser Gln Met Gln Glu
 660 665 670
 His Val Ser Leu Arg Ser Pro Ser Ile Arg Asn Val Gln Glu Leu Lys
 675 680 685
 Glu Ala Ile Lys Ser Leu Gln Trp Met Ala Gly Gly Thr Phe Thr Gly
 690 695 700
 Glu Ala Leu Gln Tyr Thr Arg Asp Gln Leu Leu Pro Pro Ser Pro Asn
 705 710 715 720
 Asn Arg Ile Ala Leu Val Ile Thr Asp Gly Arg Ser Asp Thr Gln Arg
 725 730 735
 Asp Thr Thr Pro Leu Asn Val Leu Cys Ser Pro Gly Ile Gln Val Val
 740 745 750
 Ser Val Gly Ile Lys Asp Val Phe Asp Phe Ile Pro Gly Ser Asp Gln
 755 760 765
 Leu Asn Val Ile Ser Cys Gln Gly Leu Ala Pro Ser Gln Gly Arg Pro

770		775		780
Gly Leu Ser Leu Val Lys Glu Asn Tyr Ala Glu Leu Leu Glu Asp Ala				
785		790		800
Phe Leu Lys Asn Val Thr Ala Gln Ile Cys Ile Asp Lys Lys Cys Pro				
	805		810	815
Asp Tyr Thr Cys Pro Ile Thr Phe Ser Ser Pro Ala Asp Ile Thr Ile				
	820		825	830
Leu Leu Asp Gly Ser Ala Ser Val Gly Ser His Asn Phe Asp Thr Thr				
	835		840	845
Lys Arg Phe Ala Lys Arg Leu Ala Glu Arg Phe Leu Thr Ala Gly Arg				
	850		855	860
Thr Asp Pro Ala His Asp Val Arg Val Ala Val Val Gln Tyr Ser Gly				
	865		870	875
Thr Gly Gln Gln Arg Pro Glu Arg Ala Ser Leu Gln Phe Leu Gln Asn				
	885		890	895
Tyr Thr Ala Leu Ala Ser Ala Val Asp Ala Met Asp Phe Ile Asn Asp				
	900		905	910
Ala Thr Asp Val Asn Asp Ala Leu Gly Tyr Val Thr Arg Phe Tyr Arg				
	915		920	925
Glu Ala Ser Ser Gly Ala Ala Lys Lys Arg Leu Leu Leu Phe Ser Asp				
	930		935	940
Gly Asn Ser Gln Gly Ala Thr Pro Ala Ala Ile Glu Lys Ala Val Gln				
	945		950	955
Glu Ala Gln Arg Ala Gly Ile Glu Ile Phe Val Val Val Val Gly Arg				
	965		970	975
Gln Val Asn Glu Pro His Ile Arg Val Leu Val Thr Gly Lys Thr Ala				
	980		985	990
Glu Tyr Asp Val Pro Tyr Gly Glu Ser His Leu Phe Arg Val Pro Ser				
	995		1000	1005
Tyr Gln Ala Leu Leu Arg Gly Val Phe His Gln Thr Val Ser Arg				
	1010		1015	1020
Lys Val Ala Leu Gly				
1025				

<210> 110
 <211> 338
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> Lumican precursor

<222> (1)..(338)

<223> Accession NO: as of 29 August 2003: P51884

<400> 110

Met Ser Leu Ser Ala Phe Thr Leu Phe Leu Ala Leu Ile Gly Gly Thr
1 5 10 15
Ser Gly Gln Tyr Tyr Asp Tyr Asp Phe Pro Leu Ser Ile Tyr Gly Gln
20 25 30
Ser Ser Pro Asn Cys Ala Pro Glu Cys Asn Cys Pro Glu Ser Tyr Pro
35 40 45
Ser Ala Met Tyr Cys Asp Glu Leu Lys Leu Lys Ser Val Pro Met Val
50 55 60
Pro Pro Gly Ile Lys Tyr Leu Tyr Leu Arg Asn Asn Gln Ile Asp His
65 70 75 80
Ile Asp Glu Lys Ala Phe Glu Asn Val Thr Asp Leu Gln Trp Leu Ile
85 90 95
Leu Asp His Asn Leu Leu Glu Asn Ser Lys Ile Lys Gly Arg Val Phe
100 105 110
Ser Lys Leu Lys Gln Leu Lys Lys Leu His Ile Asn His Asn Asn Leu
115 120 125
Thr Glu Ser Val Gly Pro Leu Pro Lys Ser Leu Glu Asp Leu Gln Leu
130 135 140
Thr His Asn Lys Ile Thr Lys Leu Gly Ser Phe Glu Gly Leu Val Asn
145 150 155 160
Leu Thr Phe Ile His Leu Gln His Asn Arg Leu Lys Glu Asp Ala Val
165 170 175
Ser Ala Ala Phe Lys Gly Leu Lys Ser Leu Glu Tyr Leu Asp Leu Ser
180 185 190
Phe Asn Gln Ile Ala Arg Leu Pro Ser Gly Leu Pro Val Ser Leu Leu
195 200 205
Thr Leu Tyr Leu Asp Asn Asn Lys Ile Ser Asn Ile Pro Asp Glu Tyr
210 215 220
Phe Lys Arg Phe Asn Ala Leu Gln Tyr Leu Arg Leu Ser His Asn Glu
225 230 235 240
Leu Ala Asp Ser Gly Ile Pro Gly Asn Ser Phe Asn Val Ser Ser Leu
245 250 255
Val Glu Leu Asp Leu Ser Tyr Asn Lys Leu Lys Asn Ile Pro Thr Val
260 265 270
Asn Glu Asn Leu Glu Asn Tyr Tyr Leu Glu Val Asn Gln Leu Glu Lys
275 280 285
Phe Asp Ile Lys Ser Phe Cys Lys Ile Leu Gly Pro Leu Ser Tyr Ser

290		295		300													
Lys	Ile	Lys	His	Leu	Arg	Leu	Asp	Gly	Asn	Arg	Ile	Ser	Glu	Thr	Ser		
305						310				315					320		
Leu	Pro	Pro	Asp	Met	Tyr	Glu	Cys	Leu	Arg	Val	Ala	Asn	Glu	Val	Thr		
				325					330					335			
Leu	Asn																